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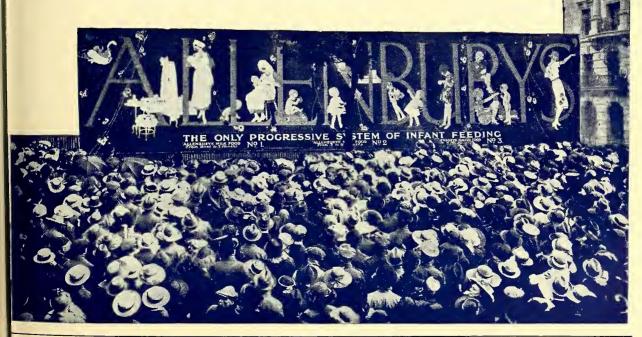
A Unique poster on a unique site -

HE "Aldwych" site in the Strand, close to its junction with Fleet Street, and near by the spot where stood old Temple Bar, occupies a place apart in outdoor publicity. The size, 110 ft. by 28 ft., is in itself immense, but it has been exceeded. But for size, position, volume of passing traffic, etc., the "Aldwych" hoarding is unrivalled.

Allen & Hanburys Ltd. occupy this position until the early winter with yet another of Miss Gladys Peto's delightful fantasies of child life.

It rivets attention for its own sake, and, as last year's experience showed, has an immediate and lasting effect on the public demand.

Are your stocks adequate to meet the increased call?



Here's Something to **Increase Your Profits**

ADVERTISEMENTS

similar to the one below will appear in the National Dailies, Women's Papers, and those going to Hotels, Offices, Factories, Schools, including:

- "Daily Mail,"
 "Daily Graphic,"
 Daily Sketch,"
- "Ideal Homes,"
- "Our Homes
 Garden," and
- "Home Chat,"
- "Lady's Companion," Local Government Service. Hospitals, etc.

An entirely new preparation to clean and keep clean W.C. Bowls without the effort, fumes or danger of the only other known and less efficient article, Spirits of Salts.

It is a product that has been wanted for years, and after thoroughly testing conditions we have found there is a big demand.

Everyone who sees it wants to buy it, and then uses it regularly, and when you consider the number of W.C.s in your vicinity you have some idea of the sales you can make.

"Harpic" is packed in thrty-six nominal 1-lb. tins with showcard, and six nominal 7-lb tins without showcard, to a package, and it sells at 1/5 and 8/9 respectively.

The discount to you is $33\frac{1}{3}$ per cent. and $2\frac{1}{2}$ per cent. monthly account.



In order to encourage you to have some "Harpic" in stock to meet the demand being created by our advertising, we will send thirty-six 1/5 tins, carriage paid, and we definitely guarantee to relieve you of any unsold tins at any time after one month and refund the price paid.

ON THE P.A.T.A.

We advertise "Harpic" to assist you to sell. We guarantee the sale, and you get

33½ on TURNOVER

In order to save delay, just send a penny p.c. with your name and address on it, and we shall know that you want a quarter-gross package sent immediately.

MANUFACTURING HARPIC

46 & 48 GOSWELL ROAD, LONDON, E.C. 1.

SHOWCARD of the **SEASON**

THE difficulties connected with the efficient display of a large variety of Tablets are so palpable that this profitable department is often neglected and does not come in for its fair share of prominence.

To assist pharmacists to show quite a satisfactory range of Tablets, we have pleasure in offering to our regular customers one of our

COMPOSITE SHOWCARDS

which, as can be seen from the illustration below, permit of 18 different articles being offered to the

public at one glance.

The trouble involved in the fixing of the specimen articles (which is best done with Seccotine) is small, but the sales resulting are enormous.



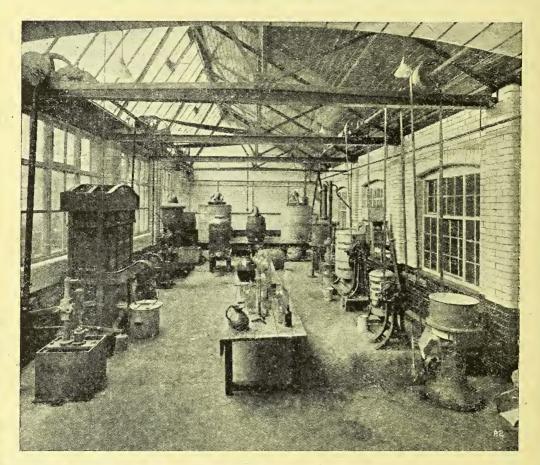
IF YOU WOULD LIKE ONE OF THESE CARDS LET US KNOW BY RETURN AS OUR STOCK IS LIMITED. New customers will be supplied with one free of charge provided the request is accompanied by an assorted order for £3 in value of the 18 articles enumerated.

BRUGITURON DENGLAND

Established 1839.

Where the good DRUGS come from:

A series of Photographs of the Laboratories of Goodall, Backhouse & Co.



3. STILL ROOM. On the left are large and small tincture presses in which a pressure of 2 tons per square inch is applied to drug marcs. In the background on the platform are two large earthenware stills and condensers. These are used entirely for the manufacture of Sweet Nitre, of which we are one of the largest producers in the Kingdom. Also on the platform is another still used for the manufacture of Sal Volatile.

On the right is a recovery still in which drug marcs are placed. On heating, the alcohol is vaporised, fractionated, and condensed. Nearer the foreground on the right are two emulsion - making machines, where large quantities of emulsion are manufactured for chemists and hospitals. Adjoining we have two Wilkinson ointment mills, which are employed for the manufacture of ointments containing a large percentage of powder and a large percentage of base.



GOODALL, BACKHOUSE & CO. LEEDS



AN EARLY SEASON SEED DRESSING

We shall be pleased to send samples and quotation for our well-known Carbolized Seed Dressing and Ground Vitriol, or to quote for any special formulæ, packed under agent's own name. If you have inquiry for LIQUID SEED DRESSING, we can supply an approved formula.

CARBOLIZED SEED DRESSING OR FARMERS' FRIEND. LIQUID SEED DRESSING, NON-POISONOUS. GUARANTEED GENUINE SULPHATE OF COPPER. ALSO -AGRICULTURAL STRENGTHS.

List and Samples on Application.

TOMLINSON & HAYWARD, LTD.,

AGRICULTURAL LINCOLN



HAYWARD'S rera

Lists, Terms, &c.

Easiest to sell. Sales through Agents.

TOMLINSON & HAYWARD, LTD., LINCOLN.



Powder and Liquid.

New rail regulations have materially altered the con-veyance of Weed Killer. We have arranged to meet the requirements, Write to us for particulars.

Important Reduction in price of APENTA THE BEST NATURAL APERIENT WATER. New Prices: 36!- per Case of 25 Large Bottles, per doz. 18!60!- per Case of 50 Three-quarter Bottles ,, 7/6 Carriage Paid to any Railway Station in United Kingdom. APENTA Attractive Advertising Material Supplied. Wholesale Houses who have not received notification, please write for particulars. The Apollinaris Company Ltd., 4 Stratford Place, London, W.1.

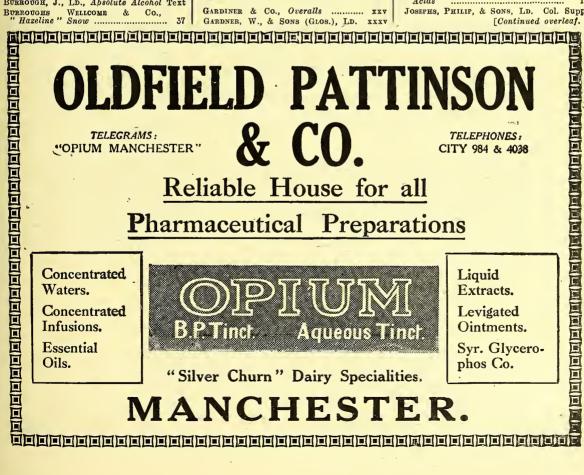
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"WAR-TIME" BENGER'S FOOD

Look through your stock, and if any Containers bear an Official Notice, printed in red ink across either label or wrapper, please communicate with us.

SURPLUS GOVERNMENT STORES

We desire to warn the Trade that any Surplus Stores of Benger's Food may be damaged, old and unfit for human consumption. Further, as Benger's Food, during the war, was put up to Government specifications, the packets frequently may not be standard sizes; there is, therefore, no recognised wholesale or retail price for these special packets.

We suggest that Dealers communicate with the firm should any of these have come into their possession, or be offered to them.



BENGER'S FOOD LTD., Otter Works, MANCHESTER.

"There is a reason!"



Retail per 10½d. tin. 3 for 2/6



Retail 1/- tin. 3 for 2/9

We have on several occasions before said "There must be," but we now say "There is a reason why Moorland Products are such sellers."

To take two new lines as examples, Moorland Health Salts and Moorland Lemonade Crystals, these have both had a phenomenal run. At the outset we thought we had made a fair estimate of the number of tins we should be likely to sell during the season. We have had to repeat our original order four times already, each time for an increased quantity, and have installed new machinery to cope with the orders.

This, we suggest, is the reason—the product in each case is something better, something different from the vast crowds of other makes, and the public quickly discern this superiority. The Pharmacist who has these lines in stock quickly benefits, as he is recognised as progressive and one who is quick to offer his customers the very best that their money can buy.

The attractive posters and show matter we supply are also a big factor in your progress; they enable you to sell grosses where before you only sold dozens—lines that pay you a profit, too, not costing you $1/2\frac{1}{2}$ and selling for 1/3, but showing you a clear 80 to 100 per cent.

We are out to help you more and more, but you in turn must be quick to grasp the opportunities we put before you, or your reward in increased trade, turnover and profit does not come.

We endeavour to originate dignified, paying publicity, not of the crude, glaring type, but artistic and sales-creating, the kind that is to-day making the big appeal to all classes, as it rings true every time.

Moorland displays are business bringers. This is not simply our assertion, but what Pharmacists tell us, and are telling us every day. Oh, yes! we occasionally find one who does not agree with us, but they get rarer and rarer because no one can now deny that "Advertising is the key to trade." We supply this key—let it unlock good business for you as it is doing to so many other progressive pharmacists.

"Moorland Pharmacy Service."



"Moorland Pharmacy Service."



PHARMACEUTICALAND

PHOTOGRAPHICAL PRODUCTS

Manufactured by

LA SOCIETÉ CHIMIQUE DES USINES Du RHÔNE, PARIS.

Acid Acetyl-salicyl (Powder & Crystal)
Acid Salicylic (Powder & Crystal)
Amidopyrazoline
Antipyrin Salicylate (Equivalent to Salipyrin)
Guaiacol Carbonate
Guaiacol Liquid
Guaiacol Pure

Hydroquinone Methyl Salicylate Piperazine Potassium sulpho-guaiacolate Pyrazoline (Phenazone) Resorcin (Medicinal & Technical) Rhodol (Equivalent to Metol) Salol

Sodium Hyposulphite
(Prismatic Crystal)
Sodium Sulphite
(Anhydrous)
Vanillin

SPOT OR FORWARD

DELIVERY

RW.Greeffe & Ltd.

HEAD OFFICE:
THAMES HOUSE,
QUEEN ST.PLACE,
LONDON,EC4
TN.C.ITY 6550 (8LINES)
TN.C.ITY 6550 (8LINES)



BRANCH OFFICE:
PALATINE BANK BUILDINGS:
IO NORFOLK ST.,
MANCHESTER.

T.N.CITY 5706-5707 TEL.ADD GREEFF MANCHESTER. BRIDGE

Tharmaceutical & Photographic Products

R. W. GREEFF & Co., Ltd., offer at lowest prices the following products:

(WHOLESALE QUANTITIES ONLY)

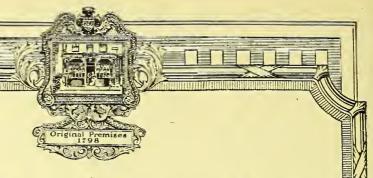
Formaldehyde

Acetanilid Acetone Acid Acetic Acid Lactic Acid Oxalic Amidol Barbitone Benzoic Acid Benzamine Hydrochlor. Benzamine Lactate Benzo-Naphthol Beta-Naphthol Bromides Calcium Lactate Chloral Hydrate Cinchonine and Salts Cinchonidine and Salts Cocaine and Salts Creosote Carbonate Eucalyptus Oil

Gallic Acid Glycerophosphates Hexamine Homatropine and Salts Ichthyol Substitute Kelene Lemon Oil Lithia Carbonate Lecithin Menthol Mercurials Methylene Blue Medicinal Methyl Sulphonal Paraldehyde Peppermint Oil Pepsine Peptone Phenacetin Phenolphthalein

Pyrogallic Acid Potassium Binoxalate Potassium Chlorate Quinidine and Salts Ouinine and Salts Quinine Ethyl Carbonate Ouinoidine Saccharin Soda Benzoate Soda Chlorate Sugar of Milk Tannic Acid Leviss Tannin Albuminate Tartaric Acid Terpineol Terpine Hydrate Theobromine Thymol Crystals Zinc Oxide





The "MARYLEBONE" STERILIZED ACCOUCHEMENT OUTFITS.

These Outfits contain sufficient dressings, etc., for the accouchement.

THE "MARYLEBONE" OUTFITS are always "GOOD STOCK" as the contents cannot deteriorate or become soiled, and sterility is maintained.

Retail Prices:

No. 1 Outfit

No. 2 Outfit

31/6

63/-

Trade Terms and descriptive literature on application.

IT WILL PAY the Pharmacist to hold stocks of these outfits. A large demand is being created by means of an intensive Press campaign.

JOHN BELL & CROYDEN, Ltd. 50 Wigmore Street, LONDON, W. 1.







Page

July 30, 1921

No. 511

Your Best Advertisement

"I FORGET now what he charged me, but I know the stuff was good!" A common remark, you may say, but one the significance of which is not always realised.

If you are the retailer referred to, that sale made a definite addition to your goodwill, and converted a customer into a permanent advertisement.

Your business and your goodwill grow if you have customers who can talk like that. They are your best advertisements.

Quality creates them!

Telephoner
City 7
Private
Branch

Telegrams: Eleven Cent

S. Maw, Son & Sons. Ltd...
Aldersgate St., London.

and Barnet.

Cables, Eleven London Code A.B.C. 44 & 54

ESSENFLOUR PRODUCTS LTD.

MYSORE (S. INDIA)

Distillers of Essential Oils and Manufacturers of Perfumery Products

AMBRETTE SEED OIL
CARDAMOM OIL
CALAMUS ROOT OIL
CORIANDER OIL
CINNAMON BARK OIL
CINNAMON LEAF OIL (a Speciality)
CLOVE OIL B.P.

DILL OIL (East Indian)
EUGENOL
GINGER OIL
NUTMEG OIL
PATCHOULY OIL
VETIVERT OIL (S. Indian)

Sole Agent for Europe-

K. B. MAVLANKAR

26/27 Hatton Garden, LONDON, E.C.1

and 29 Corporation Street, MANCHESTER.

DODGE & OLCOTT CO., LONDON, E.C. 3



THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu, TONKA BEANS, Angosturas.

Telegrams-"EGDARF, FEN, LONDON."

[Regd.]

Phone— CITY 2468.

Large

"IRISH ELEGANCE"

The Winning Perfume—Fragrance of Midsummer Roses.

PRODUCT OF

In three sizes Wholesale Retail

Small ... 28/- doz. ... 3/6

Medium ... 48/- ,, ... 6/-

The EVAN-WILLIAMS Co., Ltd.

... 168/- " ... Usuai Trade Terms,

18-18a Ogle Street, London, W. 1.

SHOWCARDS SUPPLIED.

SHAVING BRUSHES

OF OUTSTANDING MERIT.



Admired and bought by nearly all that see them.

Original Stock

5 TIMES
oversold in a
Month!

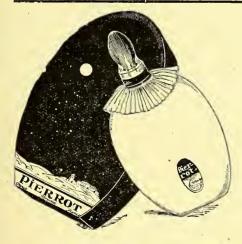


ABOVE SHOWCARD, 10 in by 14 in IN BLACK, BLUE and GOLD, FREE WITH ONE DOZEN ORDERS.

Over 100
Models at all
Prices, from
2/3 to 63/Retail. All
Splendid Value
for Money.

Discount 33½%

ORDER A RANGE TO-DAY, STATING QUANTITY AND RETAIL PRICES OF MODELS REQUIRED. ANY BRUSH OR BRUSHES MAY BE RETURNED ON RECEIPT, IF THEY ARE NOT CONSIDERED SUITABLE.



Paul Poirets Rosine perfumes

THE SPEEDY WAY TO LARGER TURNOVER & BETTER PROFITS

The astonishing feature of the trade depression is that the sales of this series have hardly fallen off at all.

A stock of 1 dozen when sold shows over £6 profit, and we can furnish a first-rate selling proposition to you.

Write TO-DAY for Tariff and Coloured Illustrations and investigate our Scheme.

W. H. CALNAN & CO., LTD. 30-32 LUDGATE HILL LONDON :: E.C. 4

SOMETHING NEW!!



is an antiseptic cream, which, when applied to the hands, quickly evaporates, leaving a soluble skin on the hands; it is practically invisible, and can scarcely be felt, yet it is there, protecting the hands against the penetration of dirt into the skin. The dirtiest job imaginable can be undertaken with impunity, safe in the knowledge that when the hands are washed once in cold water, with plenty of soap to dissolve the "PELDO," all traces of dirt are removed instantly, leaving the hands perfectly soft and white.

We have had "PELDO" tested by a well-known London Analyst, who reports as follows:—

"This preparation does what the manufacturers claim for it; it is of the greatest efficiency in rendering the Skin immune from dirt, whether of a greasy nature or not, and the skin can be washed quite clean immediately, however dirty and greasy it may be. It contains a powerful antiseptic, and is in my opinion an exceedingly valuable and useful preparation for which the manufacturers' claims are not exaggerated.

I find it to contain nothing of a harmful or caustic nature, so that it can be used safely on delicate skins."

(Signed) F.I.C., B.Sc., F.C.S.

The original signed Report can be inspected by any interested party at our office.

Retail Price 1/6 each net (P.A.T.A.).

Wholesale Price 13/6 per dozen.

In order to introduce "PELDO" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On Orders of 1 gross a bonus of 18 full-size Tubes.

" " " 6 dozen " " 8 "

" " " 3 dozen " " 3 "

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

Further particulars on application to:-

C.R. HARKER, STAGG & MORGAN Ltd.

Devon Wharf and Bell Wharf,

EMMOTT STREET - - - MILE END. E. 1

OWN NAME Packed Specialties!



It keeps the gloss glossy!

THEN in need of Packed Specialties may we suggest that you ask our representative to show you sample packs of the "IXL," "P.P.," "Art," "Bronze" and "Reservable Series" styles? Or, on receipt of a postcard, we shall be most happy to post specimens to you.

Each style is the "pinnacle of perfection" in packing and quality—prices in all cases are competitive.

The quickest-selling specialty to-day!

EMULSIFIED

Cocoanut Oil Shampoo

May we send you a sample of the "IXL" brand? A perfect shampoo-perfectly packed. We guarantee this preparation to be manufactured from pure cocoanut oil. It produces an exquisitely-perfumed, rich, creamy lather with either hard or soft water, and does not leave any trace of stickiness or grease.

Attractively packed in 4-oz. panelled bottles with sprinkler top—labels available are "Special," as illustration, "IXL," "P.P.," "Art" and "Bronze." Chemist's name and address will be printed on labels with all orders for 3 dozen and upwards.

3-gross lots, per gross 84/-

Per doz. 8/- Per gross 90/-5-gross lots, per gross 81/-

AYRTON, SAUNDERS & Co.

Manufacturing Chemists

Hanover Street, LIVERPOOL

A PROFITABLE SIDE LINE.

Torula Carbolic Soap

The new Hygienic Washer. A powerful disinfectant for all household purposes and laundry use.

Retail Price



Doublets of approximately 10-oz. weight.

Showcards supplied free.

Trade PricesGross Case 45/- net mo. Carr. Paid England & Wales 3 Case lots 5% 1 mo. Carr. Paid British Isles

SAMPLE ON APPLICATION.

May be assorted for best terms with Torula Household Soap, supplied in bars at 5\(^34\)d. lb., or doublets 45/- gross case. Same terms as above.

Wholesale Distributors for the Makers-

EVANS SONS LESCHER & WEBB Ltd.

THE THE WAY THE



Jen Years

of

DISTOL OTTOS

TEN years ago woman wanted the Vote—to-day she is not quite so sure. But there has been no hesitation on the part of Pharmacists about voting for "Distol" Ottos. Since "Distol" first won the suffrages of Pharmacists ten years ago there has been no "swing of the pendulum," and "Distols" to-day are more that ever the prime minister to the profits and reputation of the perfumery counter.

"Distol" Ottos are sold in 1-oz. bottles (making 81 oz. of perfume by the simple addition of S.V.R. and Aqua Dest.) at the uniform price of 7/6 per ounce. Forty Varieties. Ask for samples made from any six.

THOMAS KERFOOT & COLUNG BARDSLEY VALE, LANCASHIRE, & Bardsley House, London, N.1

COPYRIGHT

Vaseline SPECIALITIES

AS STAPLE AS

Vaseline

PETROLEUM JELLY

You have carried "Vaseline" Petroleum Jelly ever since you've been in business. It is as much a part of stock as castor oil or tooth powder.

The "VASELINE" Specialities have the confidence of the public because of the Trade Mark name of "VASELINE" which they carry. They are reliable as the original "VASELINE" petroleum jelly itself.

Stock, recommend, and sell these "VASELINE" Specialities, and build up the confidence of your customers.

"VASELINE" CAPSICUM Jelly—for chest colds and congestion.

"VASLLINE" CARBOLATED Jelly—for cuts and burns.

"VASELINE" EUCALYPTOL Jelly
—for head colds, influenza
and gnat bites.

"VASELINE" MENTHOLATED Jelly
—for headaches, neuralgia.

"VASELINE" HAIR TONIC
"VASELINE" CAMPHOR ICE

Showcards will be sent on application.

CHESEBROUGH MANUFACTURING CO. 42 HOLBORN VIADUCT, E.C. 1.

For other Specialities see our price list. Post free on application.





A SEASONABLE LINE with a MARKED INDIVIDUALITY

RUBY CORN PLASTERS

- THEY are smartly packed in convenient pocket-size tins on attractive showcards.
- THEY retail at a reasonable price, and still show a substantial profit to the retailer.
- THEY literally dissolve corns, and consequently sales are continually increasing.
- THEY give infinite satisfaction to both retailer and user.

Price - - 4/- per doz.

Mounted on an attractive showcard, as illustrated.

CUXSON, GERRARD & CO., LTD.

OLDBURY, near BIRMINGHAM.



S. African Agents—
ALL BRITISH AGENCY COMPANY,
10 Main Street,
Port Elizabeth.

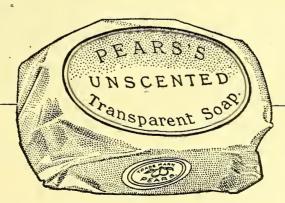
Continuously Supported by Widespread Publicity!



The most wonderful seller in the world.

There is no commodity in the world that, in its own line, can claim such a distinguished position as Pears' Transparent Soap. Pears is so universally admitted to be the best toilet soap that even those who do not use it excuse their choice with a defiant air; they know they are being foolish, and, sooner or later, they do use Pears — like sensible citizens. Pears' Transparent Soap on your counter and in your window not only sells so readily that its own overhead expenses are reduced to vanishing point, but it also attracts the casual public to your establishment and increases your sale of other goods that have no connection with soap at all.

Let increase your business



A. & F. PEARS, Ltd., 71-75, New Oxford St., LONDON, W.C. 1.

DEARBORN

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	/ -				P Price per doz.	Selling Price
DI	TENTA CO	A D			to Retailer.	P.A T.A.
	LENTA SO Complexion soa		-	•	10/-	1/-
	ROLACTUM			_	10/-	1/-
	or the lips.				,	-,
PA	ARSIDIUM	JELL	Y.	-	10/-	1/-
	or wrinkles.					
	LACITE of			035	22/6	2/6
	A dressing cream DRANIUM	ı. B	LOSS	OM	22/6	2/6
	hair tonic.		•	-	22/6	2/6
	LMERINE		_		22/6	2/6
	lair curling fluid				,-	-,-
	LEMINITE		-	-	22/6	2/6
	or a face lotion.				00/0	0/0
	OLLIANDUI For a face tint.	ΛĪ	-	-	22/6	2/6
	ERGOL -		_	_	22/6	2/6
	deodorant.		_	_	,-	_,0
ST	TALLAX -		-		22/6	2/6
	for a shampoo.	5			4.5	
	TTALINE -		-	-	31/6	3/6
	For clearing the HEMINOL -	skın.			36/-	4/-
	depilatory.		•	•	30/-	/-
	EKKO PAST	ſΈ			22/6	2/6
	amphor cream.				•	-
	ENNALINE		-	-	36/-	4/-
	or the eyelashes		37		01/0	010
	ERCOLIZEI A face cream.	V W E	X	-	31/6	3/6
	TYMOL -		_		36/-	4/-
	or oily complex	ions an	d blackh	eads.		-1-
	ARSYDE -		-	-	22/6	2/6
	Dandruff eradica					- !-
	AMMALITE		-	-	22/6	2/6
	or grey or faded				31/6	3/6
	o check excessi		- piration	locally.		3/0
	CROLIUM		-	-	22/6	2/6
F	for whitening th	e hands			· ·	
	CONOIDS		•	-	31/6	3/6
	For figure develo	pment.			00/6	O/E
	ARAPOSA - Nut oil shampoo.		-	•	22/6	2/6
1	tut on snampoo.					

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES:

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
L'NNON, Ltd.
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg):

A: KEMP & CO., Ltd. (Bombay). THE INTERNATIONAL TRADING CO., Princess Street (Bombay). R. MACLURE (Madras). SMITH, STANISTREET & CO. (Calcutta). MEHTA BROS: (Calcutta).

JAMNADAS BROS. (Bombay).

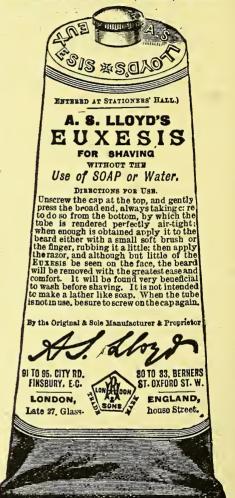
ZEALAND: SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA: DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush,



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: R. HOVENDEN & SONS, LTD., LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

A.S.LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,

Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and Proprietors:

AIMÉE LLOYD & CO.

23 PANTON STREET (formerly named Spur Street),
HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

Non-Inflammable.

Superfine Cut.

FREE with 3 doz. Combs



WHOLESALE PRICES: 8/- 10/- 12/- doz.

Glass - Fronted Showcase with 3 dozen Combs.

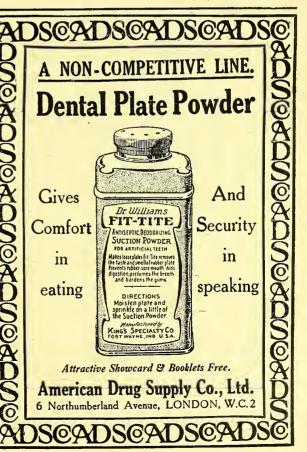
5 % Discount. Cash with Order. Carriage Paid.

Monthly accounts opened if desired.

Every variety of Combs and Brushware in Stock.

Sole Manufacturers—

H. J. LEE & CO., Osborne Works, Lancaster.



NUXOCOL" PREPARATIONS

PAY TO STOCK BECAUSE THEY SHOW YOU BIG PROFITS.

"NUXOCOL" COCOA-BUTTER THEATRICAL COLD CREAM.

In beautifully decorated tins. Will command big sales.

> 1 lb. 1 lb. 7/6 11/- doz.

> > New Line.

" NUXOCOL" LIQUID COCOANUT OIL SHAMPOO.

This line has caught on with the public. Is a guaranteed preparation. Repeat orders denote its popularity.

Two Sizes - 2 oz. 4 oz.

8/6 12/-

Sells - 1/1 1/9

"NUXOCOL" COCOANUT OIL SHAMPOO POWDERS.

20/- gross-sells 4d.

A wonderful seller. Also sent out in artistically finished boxes wrapped in cellophane - 14/- doz.

Write for our New Illustrated Price List.

BLACKIE, Wholesale Manufacturing

Shen Works, Tower Bridge Road, LONDON, S.E.1.

Telegraphic Address: "Ushenspuna London."

Telephone: Hop 2415



Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone." A big vigorous impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.

THE HAIR GROWER Price 2/9

Wholesale:

PER DOZEN.

Wholesale:

FOR GREY HAIR Price 4/6

GEO. R. SIMS! HAIR RESTORER CO. 5 Great Queen St., Kingsway, LONDON, W.C.2.



EUCRYL Window Display Competition

OUR thanks are due to the several thousand Chemists who have entered for this Competition.

Owing to the very large number of entries, and the high standard of excellence of the displays necessitating the most careful examination, we much regret that the judging of the photographs will take longer than was anticipated.

As soon as the judges have made their awards, the results will be advertised in this Journal.

The success of this Competition has been reflected in the greatly increased sales of our preparations by those competing, as evidenced by our books and the many letters received from satisfied Chemists who benefited in consequence. This is very gratifying, coming as it did at a time when most retailers found trade poor.

Now that the labour position is improved, the demand for EUCRYL PREPARATIONS will increase more rapidly, and all Chemists are invited to examine their stocks of "the lines that have always paid."

Eucryl Tooth Powder
Eucryl Tooth Paste

Eucryl Denture Powder
FOR DENTAL PLATES

Eucryl Shampoo Powder
Eucryl Lysol

Our terms cover the requirements of all buyers. Write for particulars:—

SALES MANAGER,

EUCRYL, LTD., SHIRLEY, SOUTHAMPTON

An established favourite and ready seller.



"DUCHESS"

ASSORTED

(REGD.)

TOILET SOAP

4½d. Tablets.

PRICE PROTECTED.

NO CUTTING.

SALE RESERVED exclusively to Chemists.

Send for Price List to "ERASMIC," Perfumers, WARRINGTON.

"Jackel's Cream"



CRYSTALLISED
1/9 CREAM 2/6
Trade Mark attached to each tottle.

(without Grease)
for THE HAIR

Sold everywhere Established 1883.

कीरकीर कीर कीर कीर कीर कीर

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Jackel et Cie (of Paris)
Ltd..
Sauchiehall Street
GLASGOW.

Shipkoff's Pure Otto of Rose

The TEST of Cheapness is QUALITY—not PRICE

SHIPKOFF'S OTTO OF ROSE is the Cheapest, because it is the Best Otto in the market. It is the Standard Brand-slways pure, uniform and one quality only. Before placing your contract, be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 and 4-oz. sizes.

ONCE TRIED-ALWAYS USED.

Highest Awards at all Universal Expositions, including Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria.

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari, London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.

The Example tams

Always in Great Demand. Price List on Application.

The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

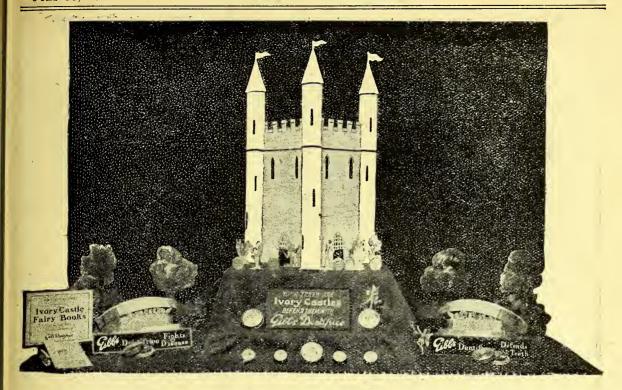


SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 11d. 1/1 size, per post 118; 2/6 size, per post 2/11; 3/9 size, per post 4/6; 8d. size, 6/. doz.; 1/4 size 12/. doz.; 2/6 size 24/. doz.; 3/9 size, 86/. doz.

THE SHADEINE CO., 58 WESTBOURNE CROVE, LONDON, W.



The "Ivory Castle" Window Display

The Most Attractive Sales-producer of the Moment

AKE your window the sensation of your district—the envy of your competitors—the pride of your staff. Make it a real force in your sales-efforts by fitting up the "Ivory Castle" Window Display supplied by Gibbs.

Besides advertising Gibbs preparations, the "Ivory Castle" Window Display advertises you—your stock and your pharmacy. It links up directly with the Gibbs propaganda—the talk of the Dental Profession and of the Public—thus it brings to you a public already influenced towards the use of Gibbs Preparations—making sales easy, as well as attracting to your pharmacy a host of new custom.

The Display comes to you complete in every detail. It can easily be adapted to suit any style of window. The dominant feature consists of a brilliant Ivory Castle standing 24 inches high, on a draped pedestal that can be arranged to suit any height of window, thrown into sharp perspective by a sombre background. The Castle is manned by quaint elves and dainty fairies in colours. A selection of showcards, cut-outs, etc., are also supplied, together with sufficient copies of "The Ivory Castle Fairy Book," for one to be given free to each purchaser of GIBBS DENTIFRICE.

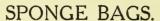
Write now for full particulars of the liberal terms on which this Display will be sent you. It is a costly production and the supply is perforce somewhat limited, so write now—a card will do.

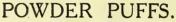


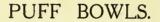
D. & W. GIBBS, LTD. (Dept. S9), City Soap Works, LONDON, E.1.

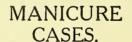




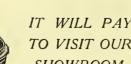


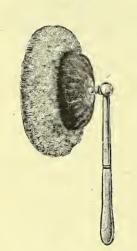




















durability, long life and soft texture.

Purchasers of Beldam Sponges are always impressed by their wearing qualities, and the unanimous opinion is that Beldam Sponges last very much longer than other makes.

To the manufacturers this is not so remarkable as they are specially made to do so by an improved process which is the sole property of the Beldam Company.

The ordinary sponge is supplied in five sizes and sold at popular prices. A patent rough-smooth sponge, rough on one side and smooth on the other, is also supplied in three sizes retailed at protected prices.

Can we send you a Price List?

Made by the

BELDAM TYRE CO. (1920), Ltd. Brentford, Middlesex.

Sole Selling Agents:

W·B RAWDON CARTWRIGHT NEAR LTD. LEEDS

"Milk of Magnesia"

(Registered Trade Mark)

P.A.T.A. 1/3 size 11/- per dozen. 2/6 ,,

Special Terms for 3, 6 or 12 dozen lots.

"Phospho-Muriate of Quinine

3/- size 27/- per dozen. 5/- ..

THE CHARLES H. PHILLIPS CHEMICAL CO.,

14 HENRIETTA STREET. Phone: COVENT GARDEN, W.C. 2 GERRARD 275.

Telegrams : "MILKOMAG LONDON."

9-10 Jewry Street, and Carlisle Avenue, London, E.C. 3.

Telephone: Avenue 3070.

Telegrams: "Orrisroot, Fen, London."

Aloes (Curação and Cape) Balsam Tolu

Para Capivi

Block Juice Cardamoms

Castile Soap

Celery Seeds and Powder

Calamus Root Colocynth Pulp

Dandelion Root

English Belladonna Leaves

Essential Oils

Euphorbia Pilulifera

Gentian Root

Gum Tragacanth Ipecac.

Irish Moss

Japanese Isinglass

Kola Nuts

Licorice Root

Lavender Flowers

Marshmallow **Orange Peel**

Orris and Senega Roots

Quassia Chips

Quillai

Rhubarb, E.I. (all grades)

Sarsaparilla

Scammony Root

Senna Leaves and Pods

Squills

Sulphur Flowers

Sweet Herbs, etc.

Valerian Root

Kindly write for Price List. 💠



Who Pays Your Rent?

In one pharmacy in a town of under 10,000 inhabitants this important part of the overhead expenses is paid by the profit on Euthymol Tooth Paste alone.

A truly satisfactory result, amply rewarding the trouble taken.

How is it done?

By personal interest, bold window and counter displays, and a commission to encourage assistants.

Euthymol TOOTH PASTE

is from every point of view worthy of your sustained interest. Its enormous world-wide sale rests on the sure basis of merit.

EUTHYMOL PROFITS COME EASILY

Let Euthymol Tooth Paste help to pay your rent. Write now for best terms.



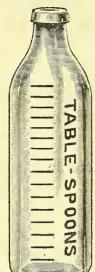
PARKE, DAVIS & CO. 50-54, Beak Street, LONDON, W.1.

Laboratories - - Hounslow, Middlesex.





Brand of Hand-Moulded



BOTTLES

AND

MEDICAL SSWARE

Free from dangerous "frosted glass."

Dispensing Finest Quality Bottles. Poisons, Cheltenhams, Chest Squares, Shop Rounds, and Bottles for Proprietary articles, in various colours. Feeding Bottles and Sterilizing Milk Heat - Resistant Rottles in Glass.



DISPENSING BOTTLE.

STERILIZING MILK BOTTLE.

BROS.

Wholesale only-GLASS

CO. LIMITED,

BARNSLEY, ENGLAND.

WOOD

(Established 1828)

CONFORM

With the DANGEROUS DRUGS ACT by using WILKINSON'S

Kegister

Containing 13 pages, price 3/-, and WILKINSON'S

Morphine Register

(For Morphine, Diamorphine, Cocaine, Ecgonine, &c.)

Containing 64 pages in 4 sections, price 4/-.

The above contain full details together with spacious columns for writing and have been specially compiled to meet the requirements of the Act.

from JAMES F. WILKINSON

(Exors.: G. F. BERRY AND J. G. DRIVER),

Medical Label Printer,

Bury Street, PENDLETON, Manchester.

NIMASA

An efficient remedy for the prevention and cure of ARTERIO SCLEROSIS. CALCINATION, and Allied Complaints.

> Agents wanted everywhere. Good Full particulars from

W. SUTER & C

12 Edmund Place, LONDON, E.C. 1.

BEST ENGLISH-MADE

hermometers

Guaranteed accurate, and all passed by N.P.L. and registered.

2 Min.	Ordinary					., in n	ickel cases
1 ,,	11	• • •		19'-	73		17
2		•		21/-	"		**
2 ,,	Magnifyir				+7		91
į ,,	9.1	1.9		22 -	11		**
立_ ,, .	99	91	•••	24:6	17		17

Cash with Order. Cash refunded if Goods not approved.

GOLDSMITH.

Streatham, 182 Ribblesdale Road, LONDON, S.W. 16.

IT STANDS TO REASON THAT, ACTING FOR PRACTICALLY ALL THE WHOLESALE TRADE,

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

(For the Protection of the Drug, Chemicol, Photographic & Allied Trades).

Holds the unrivalled position of being able to render the finest possible service in relation to

The Collection of Accounts, Status Enquiries, Investigations, Valuations, Purchase and Sale of Businesses.

(FACTS THAT MATTER.)

It has Agents in every town in the United Kingdom—It owns the most Up-to-Date Records—And its Directors are connected with the Leading Manufacturing Chemists.

A VERY LARGE FIRM WRITES: "We strongly advise every business firm placing their accounts in your hands for collection. THE RESULT will ASTONISH them."

WRITE TO-DAY FOR PROSPECTUS, and by joining, you will make your BAD DEBT LEDGER
a relic of the past.

Chemists' Business Transfer Agency, Auction and Valuation Department.

VENDORS.

Chemists desiring to dispose of their businesses, Wholesale or Retail, are invited to place them in our hands. We possess an unique register of bona-fide purchasers.

PURCHASERS.

Intending purchasers will do well to consult us, as we have an unrivalled experience in the sale, transfer and valuation of all classes of business, and give expert advice free of charge.

STOCKTAKING.

We make a special feature of this very important work, and having a large and qualified staff to assist us, we can carry on the same expeditiously and without interruption to business. Moderate and inclusive fees.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, Limited.

PRINCIPAL - PARKIN S. BOOTH,

ACCOUNTANT AND VALUER.

(The Trade Protection's "Live Wire," as the "C. & D." describes him.)

HEAD OFFICES:

31 KIMBERLEY HOUSE, HOLBORN VIA., LONDON, E.C. 1.

Telephone No. Telegraphic Address: City 6942 & 3 (2 lines). "Asmonist, Cent, London."

LIVERPOOL BRANCH:

35, 36, 37 EXCHANGE CHAMBERS, BIXTETH STREET, LIVERPOOL.

Telephone: Centrol 8365 (4 lines) Telegroms : "Quorum Liverpool." BAISS BROTHERS



& COMPANY, LTD.

Established 1833.

SOLID & LIQUID

EXTRACTS

All official Extracts are prepared by us in strict conformity with the British Pharmacopæia.

BAISS' EXTRACTS are the outcome of ninety years' manufacturing experience.

Fine Chemicals.
Standardised Tinctures.
Concentrated Infusions
and Decoctions.

Pills & Tablets.
Soluble Essences.
Hospital Furniture.
Surgical Instruments.

Price Lists in various languages.

BAISS BROTHERS

AND COMPANY, LTD.

Wholesale & Export Druggists, Manufacturing Chemists & Makers of Surgical Instruments.

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

Grange Works, 174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.1

THE

Trade

Prize 3rd Prize

2nd Prize £100

4th Prize

10 PRIZES OF £10 EACH, AND 50 PRIZES OF £1 All Chemists and Druggists (registered entrants) who complied with our special offer by sending remittance with their order during the period of the Competition, will shortly receive a Free Parcel of Enolin preparations, value 14/6, Carriage Paid.

3 Fenchurch Street, London, E.C. 3: July 26, 1921.

We hereby certify that we have checked and examined the attempts received from competitors in the above competition, and that the list of trade prizewinners (registered entrants) of the Enolin Tooth Paste Trade Competition, in accordance with the rules governing the said competition, is as follows:

1st Prize £250, JAS. COOK, M.P.S. 2nd Prize £100, W. ELLIS, Phar., St. Stephens, Norwich. 2nd Prize £100, W. ELLIS, Phar., Fulham, S.W.6

3rd Prize - £50 PARKES & LUSTY, The Pharmacy, Tenbury Wells. 4th Prize - £25, WM. SMITH, Chemist, Silver Street, Durham.

10 Prizes of £10 each to the following:

Norwood's Drug Stores, 41 High Street, West Norwood,!London, S.E.

N. TODD, M.P.S., 72 Holywood Road, Belfast. W. G. Day, Pharmacist, Fore St., Saltash, Cornwall. GRIMBLE & KENT, Boston.

HARGREAVES, Chemist, 1 Barton St., Gloucester.

J. Wools, Chemist, 16 Cecil Square, Margate. HOWARD DUNCAN, M.P.S., 209 High St., Arbroath. W. S. SPICER, Chemist, 13 Cornhill, Dorchester.

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L. J. INGROUILLE, South St., Wareham, Dorset.

HARGREAVES, Chemist, 1 Barton St., Gloucester.

L. J. INGROUILLE, South St., Wareham, Dorset.

70 Prizes of £1 each to the following: T. Haslam, Chemist, 56 Bolton Road, Blackburn; D. Llewellan Jones, M.P.S., Colwyn Bay; J. Cormack, Chemist, St. John's Road, Corstorphine: W. Smith, Chemist, Silver Street, Durham; — Folkard, Chemist, York; C. N. Watson, Chemist, Stenson Lane, Derby; H. C. Isaac, Dispensing Chemist, Clifton, Bristol; E. T. Pritchard, Cash Chemist, Penygraig; Whitmore Baker, Dispensing Chemist, Lauderdale Parade, Maida Vale, London; W. Aston, Chemist, Montague Street, Worthing; Wilman, Chemist, 32 Westgate, Bradford; Dodsleys, Chemists, 6a Hargreaves Street, Burnley; E. B. Stamp, 21 High Street, Hampstead, London; Buxton & Co., Chemists, Chemists, 6a Hargreaves Street, Burnley; E. B. Stamp, 21 High Street, Hampstead, London; Buxton & Co., Chemists, 51 Penny Street, Lancaster; J. Christie, Chemist, 40 Main Street, Largs, Ayrshire; Leslie Gabb, M.P.S., 253 Dudley Road, Birmingham; W. J. Brown, 49 Bull Ring, Ludlow; S. R. Morris, Chemist, Gowerton, S. Wales; Parkes' Drug Stores, 1 Electric Avenue, Brixton, London; H. A. Elliott, M.P.S., 73 London Road, Portsmouth; W. Smith, 34 Silver Street, Durham; St. Vincent's Pharmacy, Lower Addiscombe Road, Croydon, London; J. N. Cullwick, M.P.S., 8 Waterloo Road, Smethwick; Marshall's Drug Stores, 27 New Arcade, Sunderland; F. W. Smallwood, M.P.S., Grove Lane, Handsworth; Messrs, Horniblow, Chemists, Sidbury, Worcester; Darlington's Drug Stores, 283 London Road, Highfield, Sheffield; W. Mitchell, M.P.S., 14 Bolton, Street, Bury; Lester & Williams, Chemist, 44 Old Road West, Gravesend; George Hawie & Son, 4 East Prince's Street, Helensburg; J. A. Hogg, Chemist, 79 Port Street, Stirling; Webber, Chemist, High Road, Chiswick, London; W. Dabbs, M.P.S., 87 Smithport Street, Coventry; Lion Drug Stores, Terminus Road, Eastbourne; Lester & Williamson. Cash Chemists, Foleshill; J. A. Sharp, M.P.S., High Street, Calne; P. Murray Thomson, Chemists, Charing Cross, Glasgow;

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Index to Vol. XCIV

THE index for Volume XCIV., covering the first half of the year 1921, is in preparation and will be ready shortly. It will be sent post-free to any of our subscribers who send us postcards intimating that they desire copies.

Coming Events

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, August 3

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square,
London, W.C., at 11 A.M. Council meeting.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 7.30 r.m. Summer meeting. Botanical demonstration by Dr. W. G. Smith. Non-members invited. Botanical

REXALL AGENTS .- A meeting to consider the offer made to Rexall agents by Boots, Ltd., will be held at an early date. Agents are requested to communicate with Mr. Wilfred Lean, Ph.C., 22 High Street, Burton-on-Trent, or Mr. F. Clarke, 25 High Street, Newport, Mon.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Trade with Roumania

The third annual meeting of the British Roumanian Chamber of Commerce was held at the London Chamber of Commerce on July 20. The Right Hon. Viscount Goschen, who presided, said that it would be observed from the figures in the report that the value of the trade between England and Roumania during the past year was between England and Roumania during the past year was much greater than that of previous years, although those trading with Roumania had had many handicaps in marketing their goods. Among these landicaps, which were not peculiar to Roumania, had been the exchange fluctuations, the disorganisation of the transport, and the falling prices at home. Roumanian merchants had been have of importing while prices were greated by the prices. chary of importing while prices were unstable. In spite of these obstacles, Roumania had been, on the whole, a very good market during the period of world-wide conditions of trade depression, and had clearly shown that she had a great capacity for absorbing our goods. Payments had been on a considerable scale, and, speaking generally, had been made in a satisfactory manner, atthough, of course, there were cases in which the settle-ment of debts had been adjourned. In this connection, owing to the tightness of money in this country, some English firms had lately shown a tendency to accept payment of their sterling debts in local currency at a rate of exchange superior to the market value. This was due mainly to the anxiety of firms here to obtain cash even at a sacrifice. With regard to the export credit, he was pleased to say that this appeared to be increasingly availed of for business with Roumania. The market prospects for the next year were most encouraging. The large stocks of merchandise held in Roumania were beginning to be liquidated, and the congestion at the ports had now practically been removed.

Fires

The following outbreaks of fire have been recorded since our last report:

While some rubbish was being burnt at Mann's Drug Stores, Ltd., High Street, Clapham, London, S.W., on July 23, a shed caught fire, the contents being damaged.

An outbreak of fire at the warehouse of Timothy White Co., Ltd., chemists, Chandos Street, Landport, Portsmouth, on July 24, was confined to the packing-room on the ground floor. The damage was comparatively slight.

Several cases of bottles, the property of The "Sanitas" Co., Ltd., were damaged by a fire which broke out recently in Commercial Road, London, E. The origin of the fire is believed to have been a spark from a locomotive.

Blazing embers from an adjacent fire recently caused an outbreak in a warehouse belonging to Mr. A. W. Rayner, chemist and druggist, Beccles. A quantity of chemicals was destroyed, and the fire brigade was in attendance for two hours.

Premises occupied by Adams & Beemans, Ltd., chewing-gum manufacturers, at 89 Great Eastern Street, E.C., were the scene of a fire on July 23. The outbreak, which was confined to a vault under the pavement, was caused by a light being thrown down in the street.

House-organs

The following are among the house-organs that have reached us during the month:

The current issue of "Glaxo Service Bulletin" (Glaxo, London, N.W. 1) includes editorial articles on profits, chemists' stocktaking, and maternity exhibitions. "Jay Mack" contributes suggestions on preparation for taking stock; the proprietor of an old-world pharmacy gives an illustrated account of his premises; and "Mark Price" calls attention to recent changes in the markets.

"Bubbles" (A. & F. Pears, Ltd., London, W.C. 1.) is one of the best of the illustrated house-organs that reach us, and the literary matter, while chiefly concerned with the staff of the House of Pears, makes interesting reading for those less directly connected with the company. The adventures of Mr. H. T. W. Bousfield during the organisation of the Assyrian Division, as related in the current issue, are topical in connection with the campaign in Mesopotamia. "Window-lure Lore," by Sir Henry Morgan, is another article of interest to pharmacists. Photographs of and notes on the managing directors, Mr. W. E. Booth and Mr. Robert Pears, are also given.

Birmingham

White demy wrapping-paper is slowly giving place to multicoloured varieties.

There is a tendency on the part of the local public to drift back to later shopping hours.

There has been an increase in the number of cases of mumps reported during the past week.

In a recent test case the local magistrates decided that Avery's "rapid count" machine is a weighing-machine and requires stamping.

A Beit scholarship has been awarded to Mr. W. A. P. Challenor, of Birmingham University, who will carry on scientific research at the Imperial College of Science in London.

Alderman David Davis will succeed Alderman W. A. Cadbury in the office of Lord Mayor. Mr. Davis is a lawyer by profession, a Freemason, and interested in the welfare of local hospitals.

Mr. H. C. Field, President of the local chamber of commerce, made a significant statement at a recent meeting of that body. As the result of a visit to America, he said, he was not nearly so much afraid of American trade competition as before his visit. Apart from the exchange, trade was as bad there as in this country, and America was as short of money. The American export business seemed almost dead.

Liverpool

Dr. G. V. C. Last has purchased a practice in Smithdown Road. [Corrected note.]

The August Bank Holiday break will be confined to the day as regards the wholesale trade.

The secretary of the Liverpool Chemists' Association (Mr. J. L. Hirst) will be glad to receive offers of lectures or papers for the coming session.

Mr. W. H. Saunders (chairman of Ayrton, Saunders & Co., Ltd.), addressing the directors of the Liverpool Trade Protection Society recently, commended a world-wide survey of commerce, insularity and progress being incom-

The recently issued annual report of the Liverpood medical officer of health, which covers the year 1920, contains several records that pharmacists may peruse with interest. Turning first to the administration of the Sale of Food and Drugs Acts, the following articles have been found to be adulterated: Arrowroot (1 sample out of 15), purified borax (3 out of 5), cream of tartar (6 out of 38), powdered cinnamon (11 out of 22), Gregory's powder (4 out of 5), lemon squash (5 out of 8), lime-juice cordial (7 out of 14), medicine, prescribed (3 out of 6), pepper (3 out of 68), seidlitz powders (1 out of 2). Fines were obtained in court in respect of powdered cinnamon (3 cases), purified borax (1), and prescribed medicine (3). The number of new licences issued under Section 2 of the Poisons and Pharmacy Act, 1908, was 3, and 20 were renewed. Bacteriological work figures prominently in the report. The number of specimens examined in connection with the treatment of venereal diseases was 6,133; 285 shaving-brushes were tested for anthrax, and of these 62 gave a positive result, 8,246 being eventually destroyed; and there is an interesting account, too long for quotation, of the steps taken to prove the existence of typhoid fever in a "chronic carrier." One of the many excellent charts shows the correlation between flies, diarrhœa, and the mean weekly temperature; for the purposes of this record the number of flies caught on fly-papers in various parts of the city was noted, the papers being renewed daily. The dried milk used in welfare centres amounted

to 16 tons $11\frac{1}{2}$ cwt. The number of doses of novarsenobillon and allied preparations issued to clinics was 19,201. On page 20 occurs a striking passage concerning "the delayed clinical response" to anti-diphtheric serum; it was not decided "whether the diphtheria organism was more virulent or of a different type from the ordinary, or whether the serum used was at fault."

Manchester

Mr. Stanley W. Drinkwater, eldest son of Mr. James W. Drinkwater, chemist and druggist, 49 Ashton New Road, has passed the Final examination for the degrees of M.B., Ch.B., at Manchester University.

With weekly death-rates down to 8.5 to 9.0 per thousand, Manchester will soon be able to advertise itself as a health resort. Pharmacists are finding general business at a low ebb, and many are having their summer vacation while business is on the quiet side.

We regret to learn that Mr. John Cleworth, ex-President of the Manchester Pharmaceutical Association, has been away from business for some days as the result of a severe chill. Any C. & D. readers who have not yet received their copies of Conference photographs (numbered in our special issue of June 25) may content themselves with the assurance that no order has been overlooked, and that prints are being sent out as rapidly as is possible in the circumstances.

At Manchester Police Court, recently, Samuel Tatlow, cotton-spinner, Foxhall Street, Rhodes, was fined 20l. for being in unauthorised possession of tablets of powdered opium. Tatlow was originally charged under the Dangerous Drugs Act, 1920, with being in possession of tablets supposed to contain morphine and cocaine—an allegation which could not be proceeded with, as the Act does not come into force until September. He denied having attempted to sell the tablets to two women in a Manchester public-house, and said he only carried the articles about with him to show people who attended markets in surrounding towns when he lectured on the necessity of using certain herbs and pills—a side-line of his—in preference to drugs.

Scarborough

On July 21 a garden-party was held at "Ashburn," on the invitation of Mr. H. M. Hirst, President of the Junior Pharmacy Club. Forty chemists and their friends were present. A fine collection of aloes, numbering fifty species, in pots, and including the official ones, was on show, as well as a unique selection of cacti and medicinal plants grown in the garden; some were in bloom, and others were dried ready for use in pharmacy. Miss Smart hospitably provided refreshments, and Mr. Hirst gave short descriptions of the plants on show.

It may be remembered that Mrs. George Whitfield was debarred from taking the silver cup presented by Allen & Hanburys, Ltd., in the recent golf handicap in connection with the British Pharmaceutical Conference, on account of her position as chairman of the ladies' Committee (C. & D., I., 1921, p. 868). Mr. F. W. Gamble, who was awarded the prize, has had it suitably engraved and sent to Mrs. Whitfield, with a letter in which he says: "I think it most appropriate, in view of all you did for the success of the Conference generally, that you should accept this, as a memento of a very pleasant occasion."

Miscellaneous

Mr. R. Y. GREENFIELD, son of Mr. H. H. Greenfield, chemist and druggist, Hunter's Bar Pharmacy, Sheffield, has passed the preliminary science examination for the degree of L.D.S.

RAMSAY MEMORIAL TABLET.—A memorial tablet to the late Sir William Ramsay will shortly be placed in Westminster Abbey, immediately below that erected to the memory of Sir Joseph Hooker, the botanist.

WHOLESALE DRUGGISTS' CRICKET CHAMPIONSHIP.—The British Drug Houses defeated Allenburys in a match played at Crouch End, London, N., on July 23, the scores being 84 and 68 respectively. For the winners Mr. R. M. Harvey made 32 and Mr. G. A. Frith took 6 wickets for 11 runs.

Swimming Team Race.—A swimming team race, The British Drug Houses v. Parke, Davis & Co., took place at Marshall Street Baths, London, on July 26. Numerous supporters of both clubs were in attendance. After an exciting race, the "P.D." team won by \$\frac{1}{2}\$ second. The time for the full distance of 240 yards was 183\$ seconds. The teams were: \$B.D.H.—Messrs. F. Stringer (captain), W. E. Jones; W. J. Kinsey, S. H. Lowe, C. W. Tadman, G. Welsh. \$P.D.—Messrs. J. Burbidge (acting captain), A. T. Bradford, J. Carmichael, B. J. Falk, A. T. Tyler, F. A. Lawman.

Memorial to Henry Fox Talbot.—The President of the Royal Photographic Society has issued an appeal for funds towards a memorial to Henry Fox Talbot, whose collection of experimental apparatus has just been presented by Miss M. Talbot, his granddaughter, to the Society's museum. It is proposed to erect a tablet or other suitable form of memorial at Lacock, where the distinguished photographer lived. Among those receiving contributions are Mr. G. E. Brown, editor of the "British Journal of Photography," 24 Wellington Street, Strand, W.C. 2, and Mr. A. C. Brockes, editor of the "Photographic Dealer," Sicilian Avenue, Southampton Row, W.C. 2.

LONDON CHEMISTS' GOLFING SOCIETY.—The competition for the Hepburn shield was played on the Old Fold Course, Barnet, on July 21, the winner being Mr. J. Jones. The following is the list of competitors and scores:

J. Jones				83 - 7	=	76
D. Parry	•••			86 - 8	_	78
H Marshall				94 - 16	=	78
C. Macdonald		•••		-85 - 5	=	80
W. Main	•••			90-10	=	80
J. Coward		•••		99 - 18	=	81
L. J. Read		•••	•••	- 98 - 16	=	82
H. Bartlett				86 - 3	=	83
M. Carmichael		•••		93 - 8	=	85
H. Kemp			•••	104-18	=	86
A. Boyes				101 -15	=	86
		•••		TOT TO		00

Society of Radiographers.—The first general meeting of this Society was held recently in London. Since the formation of the Society one examination has been held; among those who have received diplomas are Messrs. G. W. Gibson and G. F. Westlake. Considerable importance is attached by the Council of the Society to the question of the hours of duty of radiographic workers, and the protection committee now sitting is suggesting to the employers of radiographers and their assistants that one month's leave of absence be granted annually to this class of employee, together with two afternoons a week off duty, and that female workers in the radiographic department of any institution shall not be called upon to do duty in the wards while carrying out this work.

CLAIM FOR LUMINOUS COMPASS.—On July 25 the Royal Commission on Awards to Inventors, sitting in London, concluded the hearing of a claim by H. Hughes & Son, Ltd., in respect of a luminous compass for use in aeroplanes. Mr. Arthur Hughes stated that, before the use of a radium composition by his firm, he had nover known of the compass-points being rendered luminous in that way. The firm had lost 5,000l. worth of radium in experiments and in manufacture, and used 60,000l. worth during the war. Lieutenant Alexander, chief compass examiner at the Admiralty, said that there had been no known method of painting radium on a card to indicate the cardinal points and scale before Mr. Hughes introduced it. The decision of the Commission was reserved.

IN THE COURTS.—At Burnley Police Court, on July 21, Winifred Goulding, charged with attempting to commit suicide by taking creosote, was discharged with a caution.—At Westminster Police Court, London, on July 26, Jessie Klaber, Eaton Avenue, N.W., was ordered to pay triple duty (231. 10s. 10d.) on some bottles of eau de Cologne and 26 lb. of chocolates found concealed in her luggage on her arrival from France.—The further hearing of the adjourned summonses at Bow Street Police Court against Messrs. Alphonso & Enrique Carreras, Hammersmith, W., and Mr. Amos Jones, Long Acre, W.C.,

has been postponed to August 4.—At Consett Petty Sessions, on July 25, Tom W. Robson, Ph.C., was sentenced to a month's imprisonment in the second division for being drunk and disorderly. A charge of having attempted arson on July 21 was dismissed.—At Tower Bridge Police Court, London, on July 27, C. A. Ching, seaman, was fined 41. 4s., with 16s. costs, for being in unauthorised possession of "eighteen packets and a tube" of opium. The charge was apparently brought under the Dangerous Drugs Act.

Irish News

Brevities

At Castleblayney an infant named O'Connell died from drinking a liquid containing iodine.

Sligo County Infirmary Committee has requested its doctors to prepare a list of medicines to be used as a substitute for those which are believed to be unsuitable for an institution like an infirmary.

Dublin Castle issued the following on July 21 in connection with the Irish truce: "At 9 A.M. on July 15 a constable stationed at Arva threatened Patrick Brennan, R.D., of Arva, with a loaded revolver in his shop. The constable has been arrested and suspended. He will be sent to Dundalk for detention pending court-martial."

Mr. J. A. Bingham, Ph.C., President of the North Irish Pharmacists' Association, referring to Mr. Hardy's statement at the Council-meeting of the Pharmaceutical Society of Ireland (C. & D., July 23, p. 46) regarding the result of a meeting of the North Irish Association, asserts that "no such meeting was ever held." He adds, "No one, least of all the N.I.P.A., wishes a second Society if it can be avoided."

Belfast

At the Royal Agricultural Society's recent show Mr. Samuel Gibson, J.P., honorary treasurer of the Chemists' and Druggists' Society of Ireland, won one first prize, two seconds, a third, and a reserve in the Kerry and Dexter cattle sections.

John Clarke, a chauffeur, died recently in the Royal Victoria Hospital after taking strychnine. At the inquest it was shown that the sale was entered correctly. Edward Donaghy, an assistant in the pharmacy of Mr. W. E. Rutledge, Ph.C., Ormeau Road, said that on July 14 the deceased came into the shop and purchased 6 gr. of strychnine, stating that he wanted to poison a dog. He had previously told the witness that he had an old dog and would like to get rid of it. Witness attached the usual label. A verdict in accordance with the evidence was returned.

At Belfast Assizes, on July 2I, Philip McDade, charged with assaulting Mr. James Henderson, druggist, Great Victoria Street, on July 8, and stealing a cash-box and 40l. (C. & D., July 23, p. 42), was sentenced to four months' hard labour.—On July 25 a man named Joseph Foots pleaded guilty to receiving a camera, well knowing it to have been stolen, the property of Mr. William R. Stinson, M.P.S.I., North Street. Counsel for the defendant said that the camera had been recovered. The accused was sentenced to three months' imprisonment, but on his entering into bail to keep the peace for twelve months the conviction was suspended.

In the discussion on the Licensing (No. 2) Bill in the House of Commons, Sir J. D. Rees said: I like the word "ancillary." There have been many slang synonyms for drinks in the past. In America, for instance, it was customary to say, "What's your poison?" I prophesy that in the future everybody will say, "What's your ancillary?"

DISCOVERY OF COCAINE.—Dr. H. Schelenz, the well-known historian of pharmacy, mentions that cocaine, to which the name of "erytroxyline" was first given, was isolated by a pharmacist, Dr. F. Gaedcke, later owner of the pharmacy in Dömitz, the discovery taking place in the laboratory of a Berlin pharmacist, Franz L. Sonnenschein.

Scottish News

Brevities

During the recent hot weather chemists were frequently asked to prescribe for sufferers from colds.

Extensive damage was recently caused at the works of the Mechanical Retorts Co., Ltd., Paisley, by an outbreak of fire.

Two Dundee warehousemen pleaded "guilty" at the Sheriff Court, on July 23, to the theft of a gross of bottles of Eno's Fruit Salt from a warehouse in Exchange Street. A fine of 2l. each was imposed.

Edinburgh

The employees of T. & H. Smith, Ltd., took part in an enjoyable picnic to Limithgow recently. Sports were held in the Palace grounds, and tea was served in the Masonic Hall.

Members of the Pharmacy Athletic Club interested in the newly-formed cricket section are requested to forward their names to the convener, Mr. J. M. J. Gray, 10 Hermand Terrace. The first match will take place on Angust 3.

A portrait of the late Lord Lister, a copy of the portrait painted by W. Ouless, R.A., and in possession of the Royal College of Surgeons of England, has been presented to the Royal College of Surgeons of Edinburgh by the President, Dr. George Mackay.

A motor lorry conveying employees and friends of William Taylor & Co. (Edinburgh), Ltd., soapmakers, met with an accident at Craigburn, near Leadburn, recently. The lorry skidded while descending a hill and several of the occupants were thrown out, a boy named McGill sustaining a fractured collar-bone.

Fife

A serious outbreak of anthrax has occurred near Cupar.

Provost W. Smart, chemist and druggist, Buckhaven, has retired from the managership of Smart's, Ltd., aërated-water manufacturers, Wemyss.

The inhabitants of Cowdenbeath were not long in taking advantage of obtaining a little soap on a recent occasion. A barrel of liquid soap fell off a passing lorry and sprung a leak. A small crowd was soon on the spot with tins and pails, and only a little of the contents of the barrel was wasted.

Glasgow

Dr. A. M. Kennedy, of the University of Glasgow, has been appointed Professor of Medicine in the University of Wales (Welsh National School of Medicine, Cardiff).

At a meeting in the Veterinary College, on July 20, under the auspices of the National Veterinary Medical Association, Principal Gaiger announced the discovery, as the result of unofficial investigations at the College, of the true nature of so-called "grass disease" in horses and its causal organism. Instead of the root-cause of the trouble being situated in the abdomen of the horse, as had been thought for the last eight or ten years, it is now stated to exist in the brain of the affected animal.

Inquest on Sir A. Newton

The inquest on the body of Sir Alfred Newton, Bt., chairman of Harrods, Ltd., and a former Lord Mayor of the City of London, was concluded at Chelsea on July 21. After formal evidence had been given by Sir Harry Newton, Bt., Mrs. Andrews, the dispenser at Harrods who made up the medicine, recalled, stated that three dispensers, a writer, the head of the department, and three boys were employed in the dispensary. She could not remember how long it was before the day of dispensing the medicine that she had used strychnine. The dispensers never used each other's scales. She did not often use strychnine, and it was generally used in solution form. The solution was always ordered from a druggist. The Coroner: If used in powder form in any quantities there would be a record of it?—Yes, it would be checked. We should not be allowed to touch it without asking the head of the department. The reason I

ask you is to find out if it would be possible for any strychnine to have remained on the scales unnoticed, and for it to get mixed up with the bismuth or bicarbonate of soda?—I don't think so. Our scale plates are of glass, and we wash them always after use. A quantity could not have escaped notice. Seventeen grains would show up pretty well?—Yes, it would cover a half-crown. Would it be easy for anyone to abstract strychnine from the dispensary?—I don't think anyone could get in with-out being seen. Locks have since been put on the doors. There were none there at the time. Mr. Frederic Fernandez Curtis, chemist and druggist, head of the dispensary, deposed that on the two days prior to the making up of the medicine no strychnine in any form had been used. On the Wednesday—the third day before—a little was used, but it was in solution form. He had never known of any strychnine being left about in the dispensary, and did not think it possible. The dispensers checked each other wnen taking poisons from the cupboard. It would be difficult for anyone to abstract poison from the cupboard. It would be possible, but most unlikely, as anyone going near it would be challenged immediately. Professor John Addyman Gardner, F.1.C., Reader in Physiological Chemistry in the University of London, and toxicologist at St. George's Hospital, said that he had analysed the contents of the bottle of medicine and also the contents of the stomach and other organs. In the medicine he found $\frac{1}{10}$ gr. of strychnine per ounce of mixture. It was in solution, and had been partly precipitated by the bicarbonate of soda. There was about $\frac{1}{10}$ gr. per ounce in the fluid. The Coroner: There would have been nearly 17 gr. in the full bottle?—Yes. Did you find any alcohol?—No. I used 3 oz. for testian proposess and order the calcable hereof the testing-purposes, and could detect no alcohol beyond the faintest trace. In what form did you think the strychnine had gained access?—It must have been in the form of strychnine hydrochloride. A fatal dose of strychnine would be 4 gr. The witness added that he found 4 mg. of strychnine in the storagh and in the lines with the storagh. of strychnine in the stomach, and in the liver, although not sufficient to weigh, there was a certain amount which gave the chemical and physiological tests in a well-marked degree. There must have been 10 mg. in half of the liver, and that would indicate a considerable portion of the drug being present in the system—so much that there was no doubt as to the cause of death, as it would be a poisonous quantity for a man in delicate health. A frog tested with the product died after giving all the signs of strychnine poisoning. The Coroner: Even if the mixture had not been shaken, nearly a grain would have been contained in the double dose taken?—Yes. Dr. Donaldson, who made the post-mortem examination, was recalled, and said that it was fainly along that the terms had. recalled, and said that it was fairly clear that strychnine had played a part in bringing about death, although there was no evidence of strychnine poisoning. Albert Burton, divisional detective-inspector, said he had made inquiries at druggists' shops in a considerable portion of London. Strychnine had been sold at three shops, the object of the purchase in all cases being to kill rats: 30 gr. was sold in two cases, and 5 gr. in the third. The names of the purchasers were recorded, and they were known to the druggists. None of them was acquainted with Sir Alfred Newton or the family, so far as he could ascertain, and had nothing to do with Harrods. Addressing the jury, the coroner said that the case was one of the strangest with which he had had to deal for some time. one of the peculiarities of some of the alkaloidal poisons that they produced no irritant effect on the stomach that was visible to the naked eye. It was possible that nothing would have been suspected about the strychnine had it not been for Sir Harry Newton's promptitude in having the medicine analysed after hearing that Sir At the Alfred had commented about its bitter taste. dispensary there was no failure in care and ability on the part of the dispenser. As to how the strychnine came to be in the bottle, all the evidence called would not help them to solve the question. Was it an accident? It probably was—i.e., by a process of exclusion. There had been no evidence of any neglect. The jury returned a verdict to the effect that death was caused by syncope, due to fatty and fibrate degeneration of the heart due to fatty and fibrous degeneration of the heart, accelerated by strychnine poisoning.

French News

(From the "C. & D." Paris Correspondent.)

STRASBURG REBORN.—The President of the Republic has signed a decree founding a Chair of Galenical Pharmacy at the Strasburg Faculty of Pharmacy as from November 1 next. M. Gautier, D.Sc., who is at present Lecturer on Natural Science at the Faculty, has been nominated to the new post.

ALLYLTHEOBROMINE (allyldimethylxanthine), according to M. Rosenthal, is 150 times more soluble in water than theobromine, and may thus be preferably utilised for hypodermic or intravenous injection. He uses two intramuscular injections of 0.30 gram daily, and only adopts the intravenous method in urgent cases.

AT THE RECENT MEETING of the Academy of Sciences M. Moureu read a paper on the stereoscopic photography of crystals. The President welcomed two distinguished foreign visitors present at the sitting—Professor Sir Arthur Schuster, secretary of the Royal Society, and Mr. Michelsen, an American Associate of the Academy of Sciences.

THE GENERAL ASSOCIATION OF FRENCH PHARMACISTS has voted 500 fr. towards the monument to Willot, the pharmacist victim of the German occupation of the Lille district. The sums collected by the Association Générale towards the re-erecting of Parmentier's monument at Montdidier (Somme) will be retained till the state of this devastated town allows of the work being carried out.

An Alleged Error.—A claim for 50,000 fr. damages against a pharmacist in the suburbs of Paris was made recently at Versailles. It was alleged that the assistant, when asked for wild succory leaves for an infusion, supplied Datura stramonium. As a result the patient (a lady) is still in ill health, and her servant is in a lunatic asylum. The pharmacist denied the error, and judgment is postponed. The case dates from before the war.

THE ANNUAL CONGRESS of the Association for the Advancement of Science (the French equivalent of the "British Association") is to be held at Rouen from August 1 to 6. The Twentieth Section (Pharmacological Science) was founded ten years ago, but owing to the war has only actually met on five occasions. Its President for 1921 is M. Albert Gascard, head pharmacist of the Rouen hospitals and professor at the logal school of medicine and pharmacy. Communications may be addressed either to him or to the secretary of the Association, at 28 rue Serpente, Paris.

The Laws of the Profits.—How to deal with the manufacturers who refuse to allow a clear 30 per cent. to retailers on their proprietary goods is one of the topical questions of the day. Two declaration forms have been submitted to the various local Pharmacy Associations by the central body, by which the signee agrees to pay a fine of 100 fr. if he should sell the black-listed goods until the manufacturers give a net minimum discount of 30 per cent. (in addition to free packing and carriage). The engagement is only to become valid when every retailer in the town or district has signed, and goods will be taken off the black list as soon as the manufacturer falls into line.

INSECT PESTS.—Allusion has been made in these columns to the use of liquid fire for the destruction of the crickets (Dociaustaurus marocanus), which are ravaging the agricultural districts of Southern France. It proved efficient, but costly, working out at 300 fr. per hectare, while the surface to be cleared was about 40,000 hectares. Chloropicrin was next tried. This also was effective, but required the employment of experts and necessitated the wearing of gas-masks, terribly trying and practically insupportable in the burning plains of the Crau. Finally simple poison bait was tried, consisting of arsenic, 1 lb., to treacled bran, 20 lb. By this means the pest seems at last to have been got under.

THE RED CROSS.—The law forbidding the use of the Red Cross of Geneva for trade purposes (passed in 1913) has hitherto, on account of the war, practically remained

a dead letter. The authorities are, however, now taking up the matter, and prosecution is threatened in cases in which the Act is not being observed. The General Association of French Pharmacists has pointed out to the authorities that mobilised men had had other things to think of during the last few years. The Association has, however, communicated with the local associations with a view of securing the suppression of the forbidden emblems or inscriptions—the words "Red Cross" or "Cross of Geneva" may not be used.

NATIONAL HONOURS.—M. Pierre Edouard (generally known as "Paul") Latanne, who has just been promoted to the grade of "Officer" of the Legion of Honour, is a pharmacist, who volunteered at the age of fifty-six. He was nominated Chevalier of the Legion at Verdun on June 16, 1920. Madame Astier, who is awarded the Cross of the Legion, is the widow of the late Senaturpharmacist; her son follows his father's profession in Paris. M. Louis Lambert, another new "Chevalier," is a distinguished chemist, who served not only on the French front, but in Palestine and Syria, "always volunteering for the most dangerous errands."

The British Chamber of Commerce (Paris) calls attention to the decree of April 26, which states that the price of containers and the interior packing of goods is now to be included in the value of "compound medicines not specified figuring in an official Pharmacopeia." Packing of a category specially mentioned in the Customs tariff can, however, be passed at the rates payable thereon when a request to this effect is made with the declaration (i.e., bottles would pay the duty levied on bottles, etc.). Any goods sent to France before May 3 will be admitted on the old conditions. The report preceding the decree states that duties on pharmaceutical preparations are now levied on the sale price, as marked on the packet or other container.

M. Broca read his report on the dangers of radio-active substances at the recent meeting of the Academy of Medicine. His conclusions seem to point out that if the precautions, now well known, are observed, danger to the manipulator is practically averted. M. Cazeneuve stated that several deaths had been traced to the use of arsenical sprays for vines, and asked that these should only be authorised when insoluble and thus incapable of being washed by rain into reservoirs and cisterns. A committee was named to study this, by no means new, problem, including Profs. Guignard, Béhal, and Daniel Berthelot, all of the Faculty of Pharmacy, as well as MM. Pouchet, Moureu, Balthazard, and Prof. Cazeneuve. M. Manquat spoke on the disadvantage of large doses of digitalin and pointed out how these could be reduced while still securing efficient action. MM. Flessinger and Pouchet supported his views.

"Co-efficients of Increase."—Important modifications have been made by the French Government in the Customs tariff by the publication, in the "Journal Officiel" of July 4, of a complete revised and up-to-date list of "co-efficients of increase," which are now applied to the original specific duties. The new list of coefficients does not, in the case of every category of merchandise, represent an increase of duty, neither are all the co-efficients new. Some are merely increased, others that did not exist previously have been created, and certain already existing co-efficients have been modified. The Bulletin (No. 214) of the British Chamber of Commerce in Paris publishes in extenso a translation of the new co-efficients in respect of the various imports. These increases have been made rather quickly by means of a war measure still in force, but they are so high in some cases as to be prohibitive. The British Chamber of Commerce in Paris is taking what steps it can to protect British goods, and members are asked to examine the new rates of duty and furnish the Chamber with data as to the difference in percentage relation of the present Customs duty on the current value of the different goods imported into France and the percentage relation of the pre-war French Customs duties on the wholesale pre-war mercantile value of the same goods delivered on French soil.

South African News

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the

The Union

Poisoning Cases.—In the Cape House of Assembly recently, Mr. Marwick asked the Minister of Agriculture whether, in view of the facility with which arsenite of soda was obtainable in the Union, and the cases of poisoning of human beings and cattle which had recently been traceable to the actions of ill-disposed natives who had come into possession of this form of poison, the Government would consider what steps should be taken to prevent the misuse of arsenite of soda and other forms of poison employed in the dipping of stock. The Minister of Agriculture replied: The Government will consider whether, by adding to poison used in the dipping of stock a colouring matter or imparting a pungent odour or flavour, cases of poisoning would be likely to be prevented, but it may be pointed out that, if greater care is exercised in the storing of poison by keeping it under lock and key, more good will probably result than from any other preventive method.

Orange Free State

Business Changes.—The Central Pharmacy, wholesale and retail chemists, Bloemfontein, will in future be carried on as a limited liability company. Mr. Gregory Fyfe, the managing director, joined the late Mr. Friedman scme twenty years ago. The staff at that time consisted of himself and one native; to-day nineteen Europeans and twelve natives are employed. M. Block, Ph.D., secretary of the company, became attached to the firm a short period previous to the decease of the late proprietor.—Mr. Francis Carter, of Bloemfontein, has removed to larger and more suitable premises.—Miss Jolliffe, Ph.C., has commenced duty as dispenser at the National Hospital in place of Mr. G. Fyfe, who has held this post—part time—for several years, new extensions being expected with the addition of a department for outdoor patients.

Transvaal

CHICORY CULTIVATION.—The Pretoria correspondent of the "Cape Times" says that an industry of growing importance in Pretoria is that of chicory cultivation, and proposals have recently been made that the anomaly of the same duty on manufactured chicory and chicory root should be abolished, which would, of course, help the industry. The intention is to make the duty on the root a nominal one, with an almost prohibitive tariff on the manufactured article, but it is understood that local manufacturers are not in favour of such drastic remedies, and would be satisfied with a maximum duty of 4d., as against 6d. per lb.

Dagga Smoking.—Owing to the increase of crime as the result of dagga smoking, the "Cape Times" (April 23) advocates the suppression of this drug among the natives. Farmers' Associations in various parts of the country have repeatedly drawn attention to the growth of the evil, and the matter began to receive legislative attention four years ago when the Medical and Pharmacy Bill was before Parliament. The Bill, as finally drafted by the Senate, proposed to include "dagga," "wild dagga," "red dagga" or "klip dagga," including the whole or any portion of the plant Leonotis Leonorus or Leonotis ovata, as well as Indian hemp, in the schedule of "habit-forming drugs," which were to be brought under special regulation in their manufacture, cultivation, or exportation. The export question assumed importance because it appears that some considerable trade overseas had been built up in dagga. Unfortunately the Medical and Pharmacy Bill still remains in the pigeon-holes, and there seems no early prospect of the measure becoming law. But meanwhile the specific evil of dagga smoking is gaining ground, and is a notorious source of crime in Natal, in the Transvaal, in the native areas of the Cape, and, indeed, throughout the Union. The "Cape Times" believes that official opinion in the Public Health Depart-

ment is that even the proposed provisions of the Medical and Pharmacy Bill will not be sufficient to meet the peculiar case of dagga, which, owing to its wide prevalence, presents many administrative difficulties. If that be so it might be possible, even in the crowded days of the present session, to prepare and pass through Parliament a short Act dealing specifically with dagga and regulating its cultivation, collection, and storage, as proposed by Dr. Mitchell four years ago.

Pharmaceutical Society of the Orange Free State

A GENERAL MEETING was held at Vickers' Buildings on April 26. There were present Mr. Taylor (President), Mr. Weller (secretary and treasurer), and Messrs. Reid, Carter, Greenwood, and Fyfe (members). A reply by the Controller of the G.P.O. was received to the Society's letter protesting against the Parcels Post Regulations, in which, he said, "These Regulations were approved at the Postal Convention held at Madrid, and this administration is unable to alter them or allow any modifications beyond those recently conveyed to you after certain representations had been made by your Society." A letter from the O.F.S. Chamber of Commerce drawing attention to the rumoured removal of the Government laboratories from Bloemfontein to Pretoria was read and discussed at some length. The secretary was instructed to write the secretary of the O.F.S. Chamber of Commerce saying they are prepared to co-operate in every way to keep the Government laboratories in Bloemfontein. Mr. Greenwood proposed that a letter be sent to the secretary of the Minister of Health strongly protesting against the removal of the Government laboratories from Bloemfontein. This was seconded by Mr. Carter and carried unanimously. Mr. Greenwood spoke strongly on the manner in which general dealers in town exposed poisons for sale. He proposed that a letter be sent to the Medical and Pharmacy Board pointing out that "It has been brought to our notice that Champion, Ltd., and other general dealers are exposing for sale poisonous veterinary remedies, such as Gow's remedy, Cooper's eye lotion, etc., etc. We consider this a contravention of the Medical and Pharmacy Ordinance, and request your assistance in the matter." This was seconded by Mr. Reid and carried unanimously. Prices altered were large size Kepler's malt and oil to 9s. 6d., small size Pomeroy's skin food to 3s. 6d., and Karoo freckle cream to 4s.

A general meeting was held at Vickers' Buildings on May 24. There were present: Mr. Taylor (President), Mr. Weller (secretary and treasurer), Messns. Reid, Fyfe, Carter, and Greenwood (members). The letters from Mr. Turner (Bethudie) and Mr. Thomas (Ladybrand), in regard to the sale of Dutch medicines containing poisons, were discussed at length. In Part V., Section 50, of the Medical and Pharmacy Ordinance, "the sale of Dutch and other medicines containing poisons within a six-mile radius of a registered chemist and druggist's shop is prohibited." If the resident magistrate is informed of any contravention of the above section he must instruct the police to take action. Mr. Greenwood called the attention of the Society to the fact that a preparation called "Non-poisonous Paregoric" is being sold by storekeepers in town. It was resolved that the police be asked to take action, as the sale is in contravention of the Food and Drugs Act. The secretary was instructed to write the Bloemfontein Chamber of Commerce, agreeing to support them in their protest against the increased postal tariff. Mr. Abelson's motion re the day of meeting was fully discussed. It was agreed to hold the next meeting on the fourth Tuesday in the month, but afterwards the meetings will be held on the first Wednesday in the month to meet the wishes of the student-members. The meeting agreed to the revised prices of the Transvaal price-list committee, except that the price of large-size Kepler malt and oil, 9s. 6d., fixed at the last meeting, be adhered to.

THE "Journal de Pharmacie de Belgique" of July 17 reproduces the paragraph addressed to Belgian readers which appeared in The Chemist and Druggist of July 9.

India and the East

(From the "C. & D." Correspondents.)

PALESTINE.—New IMPORTS REGULATION.—The Board of Trade has been notified by the Department of Commerce and Industry of the Government of Palestine that the importation of saltpetre and opium into that country is only permitted under special licence issued by the Director of Public Security and the Department of Health respectively.

GROUND-NUT CROP.—From a report received from Burma in the Department of Statistics, India, it appears that the total area sown with the ground-nut crop in the province this year is estimated at 265,000 acres, against 221,000 acres reported at the corresponding date last year, or an increase of 20 per cent. The prospects of the crop in the dry zone are still uncertain.

Gums and Resins.—A collection of samples of aromatic gums and oleo resins, available in commercial quantities in the Madras forests, has been made through the medium of the Forest Department for a large London firm of manufacturing chemists, who have also been supplied with full information as to sources of supply and quantities available. This firm have promised to consider the question of establishing a factory in Southern India for the manufacture of drugs and essential oils.

ADULTERATION OF CASTOR OIL.—With a view to checking the practice of adulterating castor oil before export, the Indian Government has approved of a scheme under which facilities are provided for the examination of the oil and the issue of official certificates of purity. The Chemical Examiner tests free of fee such oil as is sent to him by firms and individuals approved by the Director of Industries, and grants in each case a certificate showing the standard of purity attained. The scheme, which is experimental, came into force on January 15, 1920.

DEPARTMENT OF INDUSTRIES.—The new Department of Industries of the Indian Government is the outcome of the policy embodied in the recommendations of the Industrial Commission of 1916-18, according to which the Government must take an active part in the industrial development of the country, working through an adequate administrative organisation, Imperial and provincial. The old policy of laisser faire in industrial matters on the part of the Government has been given up. Through the Imperial Department now constituted, and the Provincial Boards by which administrative work is decentralised, the Government will act as guide, philosopher, and friend to the youthful industries of the country. If Indian industries do not thrive it will not be for want of official nursing.

Indian Essential Oils.—The following are extracts from the Report on the Administration of Mysore for the year ended June 30, 1920: A number of essential oils were distilled by the industrial chemist at the soap factory in a qualitative way. Important results were obtained in the distillation of cardamoms. Nearly two tons of patchouli leaves were distilled and the oil was used for perfumery purposes. Qualitative experiments were carried out in the distillation of rosha grass, vetiver, lemongrass, citronella grass, Kasturi arsina, and ajawan seeds. Sandalwood oil factories dealt with 1,362 tons of sandalwood. The demand for oil was good, but the profits were greatly affected by the exchange. At the high price which sandalwood—realised in the auctions of Coorg and the Madras Presidency the margin of profit was small. The terms of agreement with Sir A. Chatterton were revised in consequence of his having been allowed to act as adviser to the Tata Industrial Bank.

INDUSTRIAL ALCOHOL.—The Government of India has decided to appoint a small Committee to consider and report on the extent to which the existing excise regulations in the various provinces of India require amendment in view of the possibility of the manufacture of industrial alcohol on a large scale being taken up in the near future. The Committee will be constituted as follows: President, The Hon. Sir John Maynard, K.C.I.E., C.S.I., I.C.S., Financial Commissioner, Pun-

jab; Members—Dr. N. L. Sheldon, Ph.D., F.I.C., Chief Inspector of Explosives with the Government of India; Mr. R. L. Jenks, F.I.C., F.C.S., Chemical Examiner for Customs and Excise, Calcutta; Mr. W. Neilson, manager, The East India Distilleries and Sugar Factories, Ltd, Nellikuppam, Madras Presidency; Secretary, Mr. J. B. Taylor, I.C.S. It is proposed that the Committee shall assemble at Simla on August 28. All communications intended for the Committee should be addressed to the Secretary, Mr. J. B. Taylor, I.C.S., c/o the Department of Commerce, Simla.

Chinese News

Musk.—Chungking is the chief port of original export for Chinese musk, which is brought into Szechwan from Tachienlu, an important market town on the Tibetan-Chinese border. The market for musk suffered through the war, but is now gradually recovering, the quantities exported in 1920 being 24,447 taels, valued at Hk. tls. 577,079, compared with 15,954 taels and Hk. tls. 533,914 in 1917. The principal countries of destination were America, Japan, Great Britain, and France.

NARCOTIC DRUGS.—Opium is at present imported only into the leased territories of Dairen and Kiao-chow, and amounted to 136.20 piculs in 1920, compared with 333 and 156 piculs in 1918 and 1919 respectively. With the above exception, opium has accordingly disappeared from the Customs return as an article of import. This, it is feared, does not imply that the Chinese masses have been weaned from their pernicious habit of smoking opium, and there is good reason to believe that the poppy plant is still being extensively cultivated, more or less surreptitiously, in several provinces. In addition to this homegrown supply it is known that, owing to the extreme ease with which the drug lends itself to concealment, considerable quantities of opium are smuggled into China, in spite of constant vigilance on the part of the Customs officers. The quantities of opium, morphine, and cocaine seized by the Chinese Custom Houses during the last four years are given below:

		Opium				_ 1	Iorphine	Cocaine
Year		lb.	tons	cwt.	grs.	lb.	lb.	lb.
1917		20.458 =	9	2	3	0	219	32
1918		26,676 =	11	18	Ō	20	147	15
1919	•••	48,375 =	21	11	3	19	213	164
1920		96,627 =	43	2	2	27	742	264
			_	_				
T	otal	192,146 =	85	15	2	10	1,321	475

CAMPHOR.—The fact that Formosa has a virtual monopoly of the world's camphor supplies, and that the quantities arriving from that quarter are gradually diminishing, raises the question, which is at once interesting and urgent, as to whether production in China can be stimulated. The quantities of camphor exported from China during recent years were:

Date		Piculs		Value, Hk. Tls.
1916		2,377	•••	181,673
1917	•••	3,547	***	621,918
1918		5,742	•••	428.074
1919	***	25,093		1,595,313
1920		29,997	•••	2.840.043

while the output of Formosan camphor gradually decreased from 5,360,642 kin in 1910 to 2,197,780 kin in 1919 (1 kin=1.32 lb. avoirdupois). The principal producing districts in China are the Kiangsi, Fukien, and Kwangsi provinces, but the crude Chinese system of distillation cannot yet compete with the up-to-date methods employed in Formosa; while the lamentable Chinese practice of ruthlessly cutting down the trees without planting new ones will soon kill this industry unless reforestation is attended to. Prices for camphor and camphor oil have greatly increased in recent years, and, as the future of the trade looks hopeful, there should be sufficient inducement to take the necessary steps for the encouragement of this valuable industry.

Legal Reports

Deficient Sweet Spirit of Nitre.—At Woolwich Police Court, recently, John Neale, Ltd., George Street, were summoned for selling sweet spirit of nitre deficient in ethyl nitrite to the extent of 41.4 per cent. The defendants pleaded "Guilty," but urged that the spirit easily deteriorated. The magistrate said that justice would be met by the payment of 2l. 2s. costs.

Chemical Transaction. - Mr. Justice Rowlatt, in the King's Bench Division, on July 27, heard an action brought by the British Merchants Incorporated, Ltd., Eastcheap, E.C., against the London Hygienic Chemical Co., Ltd., Blackfriars Road, S.E., for the return of money that had been paid against chemical goods manufactured by the defendants. Plaintiffs claimed that by an agreement between them and defendants a consignment worth 1,000l. was sent to South America on a joint venture in 1919, the profit or loss to be divided among the parties. Plaintiffs paid 545*l*. for half of the consignment, and they said that it was afterwards agreed that defendants should take over the stock, plaintiffs to give a delivery note on receipt of payment. The defendants submitted there was no arrangement of joint account, but a sale to the plaintiffs, and the goods belonged to them. By the subsequent arrangement defendants were not bound to pay for the goods until they got them, and they submitted that, as the goods were decomposed on the first occasion delivery was offered, defendants were relieved of acceptance. His lordship, in giving judgment for the plaintiffs for the sum claimed, with costs, held that the plaintiffs were not responsible for what happened after the second agreement by which defendants were to take over the goods. The goods were to be transferred against cash, and plaintiffs were ready to hand over the goods, but defendants were not ready to accept them.

Customs and Excise Prosecution .- At Marylebone Police Court, London, on July 21, George Arthur Ascott, 13 Prince of Wales Road, N.W. 5, described as a her-Customs and Excise for vending a bottle of bisurated magnesia not duly stamped; and also for selling British cand tobacco without a licence. The deand foreign wine and tobacco without a licence. The defendant seemed to think, said Mr. J. Foote, who appeared for the prosecution, that he could carry on any business without an Excise licence. On May 24 an inspector of Customs called at the shop and asked for a 2s. bottle of bisurated magnesia. The bottle was marked 1s. 9d., and was supplied for sale in Ireland only, but defendant sold it at a higher rate, as if it had been stamped. A bottle of Idris's British wine and a bottle of Hall's wine were also sold to the inspector, one containing 26.6 per cent. and the other 28 per cent. of proof spirit. The defendant pleaded that they were the only bottles of wine he had, and expressed his resentment at what he described. what he described as the crafty practices of these officials. Mr. Foote mentioned that in November 1919 the defendant and his partner were fined for selling medicine without a stamp, for selling methylated spirit without a licence, and for removing spirit without a permit (C. & D., 1919, p. 1368). The defendant urged that the bisurated magnesia was a patent medicine, which had a patent-medicine stamp over the cork. There were no indications outside, he said, whether the inside contained the stamp or not. He contended that the invoice received with the magnesia completely exonerated him from blame. Mr. Foote said that the prosecution wanted to see the invoice. The defendant replied that he had offered to let the prosecution have it if they would exonerate him from blame. The magistrate imposed a fine of 5l. for each offence.

The Beecham Estate.—In the Chancery Division of the High Court, on July 26, Mr. Justice Eve was asked to sanction a proposal whereby the trustees under the will of the late Sir Joseph Beecham might continue to pay out of the estate for a limited period, to Sir Thomas Beecham, Bt., Sir Joseph's eldest son, an allowance at the rate of 20,000l. a year. His lordship refused a preliminary application that the matter might be heard in

camera. Mr. Jenkins, K.C., who appeared for the trustees, said that Sir Thomas Beecham was married and had two sons, both of whom were under age. Complications had arisen, mainly because Sir Joseph, just before his death, had entered into a contract to purchase the Covent Garden estate for 2,000,000%. By his will, made in September 1916, he disposed of his business by way of specific bequests, the interest in it being distributed in the form of provision for shares, Sir Thomas taking 46 per cent. On his death it was found that the estate was in such a condition that the directions in the will could not possibly be carried out, and a scheme was proposed and sanctioned by this Court on June 21, 1918, for the taking over by a company of the Covent Garden estate. This scheme also provided that out of the profits of the testator's business an income of 15,000l. a year, free of income-tax, should be paid to Sir Thomas Beecham, and 10,000l. a year to Mr. Henry Beecham. Those sums did not represent anything like the sums they would have been entitled to if the business were clear of all liabilities. That scheme was modified by a later one, the allowances being increased to 20,000l. and 15,000l. respectively. In October 1919 a receiving order was made against Sir Thomas, but there had been no adjudication, and the examination was adjourned to October next. It was obviously not in the interests of the creditors that bankruptcy should supervene. Up to June last payments were made to Sir Thomas Beecham of the allowance in the ordinary way, but a doubt had recently arisen whether in the circumstances the trustees ought to go on paying the allowance. No one contended that the mere making of the receiving order amounted to a forfeiture under the will. On the other hand, if adjudication were made it would create a forfeiture. The question then would arise as to what date the title of the trustees would go back He therefore suggested that the Court might make a declaration or order giving the trustees liberty to act on the assumption that the discretionary trust was in operation. There was evidence that by October next there would be a real effective scheme on foot which would be the hopewater. would get rid of the bankruptcy. Mr. Maughan, K.C., for Sir Thomas Beecham, said that, unfortunately for himself, Sir Thomas had never been free from pecuniary difficulties since the death of his father. Large liabilities had arisen by reason of the way the estate had been left. Sir Thomas had spent a fortune in advancing music. He was in the most favoured position anybody could be in this country, in the sense of having a life interest in a very fine business, and it was to his credit that he did not seek to get out of his difficulties, but wanted to meet them if he could. The creditors had assented to a scheme which involved payment of 20s. in the £. After further discussion, his lordship made an order authorising the trustees to pay Sir Thomas at the rate of 20,000l. a year until the bankruptcy proceedings are disposed of or until further order, and directed the costs of this application to come out of the estate.

Bankruptcy Reports

Re Robert Berk & Co. (trading as Robert Berk), 10 City Road, London, E.C., formerly of Mark Lane and Audrey House, Ely Place, Holborn, E.C., chemical merchants.—The first meeting of creditors under this failure was held at the London Bankruptcy Court, recently, before Mr. W. P. Bowyer, Senior Official Receiver. No statement of accounts was lodged, but the chairman reported that the liabilities were estimated at 500l., and the assets consisted of office furniture 10l. and book debts 344l., of uncertain value. The debtor had stated that in April 1914 he commenced business on his own account as a chemical manure merchant, but closed it down in the following January, being unable to obtain materials. In September 1916 he started business at Ely Place, under the style of Robert Berk & Co., chemical merchants, and he carried that on until he joined the Army in February 1917. It was in respect of that business that the receiving order was made. The case was left with the Official Receiver to be wound up in bankruptcy.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

Spongy Iron Filter Co., Ltd. (P.C.).—Capital, 2501. Objects: To acquire the business carried on by Annie Hill, F. Kettle, and B. Bell as the Spongy Iron Filter Co., and to carry on the business of manufacturers and repairers of filters and component parts. R.O.: 137 and 139 Haverstock Hill, London, N.W.

LEIGHTON LABORATORIES, LTD. (P.C.).—Capital 5,000%. Objects: To carry on the business of manufacturers and workers of and dealers in chemicals of all kinds, etc. First directors are: C. E. Bergin (managing director), and others to be appointed by the subscribers. Solicitor: C. Crowther, 23 Abingdon Street, London, S.W.

CELMO, LTD. (P.C.).—Capital 10,000l. Objects: To take over the sole and exclusive right in all parts of the British Empire and its Dependencies to manufacture, sell, and deal in the proprietary medicines known as "Celmo" and "Celmetz," together with the goodwill of the business carried on by Mrs. C. A. Post, and the trademarks connected therewith. The first directors are: Mrs. C. A. Post, 1 Carlton Street, London, W., and E. J. B. How, 96 Piccadilly, W. R.O.: 1 Carlton Street, London, W.

W. A. Wilson & Sons, Ltd. (P.C.).—Capital 4,000l. Objects: To take over the business of a chemical and colour merchant carried on by W. A. Wilson, and to carry on the business of chemists, druggists, drysalters, oil and colourmen, manufacturers of and dealers in proprietary articles, electrical, chemical, photographical, surgical, and scientific apparatus and materials, etc. The first directors are: W. A. and P. Wilson, St. Breock, Vicarage Road, Woodford Bridge; C. Collins, 36 Leysfield Road, Hammersmith; and A. C. Stevens, School Green, Freshwater, I.W. W. A. Wilson is permanent managing director and chairman.

BRITISH OXYGEN Co., LTD.—The report for the year ended March 31 states that it is proposed to pay final dividend, free of tax, at the rate of 2s. per share, making 3s. per share. Dividend upon the 100,000 shares subscribed in May 1920, will be paid at half the above rates, likewise the shares allotted to shareholders in Sparklets and General Manufacturing Co. in exchange for their shares. Allowances have been made for excess-profits duty, corporation tax, and income-tax in the balance to be carried forward of 122,431l. During the year large plant extensions have been carried out. The Sparklets Co. is now working under this company's control.

Swiss Chemical Companies.—The Society for Chemical Industry in Basle has just made a new issue of 10,000,000 fr. in 7 per cent. bonds at par for the purpose of converting the 4½ per cent. loans of 1909-1911 and providing new working capital for the company. The new loan is repayable at par on June 30, 1931, and the company has the right to redeem it in whole or in part after June 1927, upon giving three months' notice. The issue was made through the medium of the Swiss Bank Corporation in Basle, and was received very favourably by the investing public. At the ordinary general meeting of the Sandoz Chemical Works, held in Basle on May 26, the shareholders approved the directors' report. and the proposed distribution of profits. A dividend of 18 per cent. is to be paid for the year, against a distribution last year of 30 per cent. in cash and one new share for every two old shares held. An amount of 250,000 fr. is allocated to the pension fund and a similar amount is devoted to writing down. A proposal to increase the dividend to 220 fr. per share was defeated by a large majority. The profits for the year 1920 of J. R. Geigy, S.A., of Basle, amount to 2,069,895 fr., compared with 4,047,154 fr. for 1919. The gross profit was 3.78 million francs, against 5.31 million francs for the previous year, and general expenses were 1.71 million francs, against 1.49 million francs. The share capital amounts to 6.5 millions, and the reserves to 5.42 millions.

Association Affairs

Lancaster. - The thirteenth annual meeting of the Lancaster and District Pharmacists' Association was held at the King's Arms Hotel, Lancaster, on July 19. Mr. at the King's Arms Hotel, Lancaster, on July 19. Mr. H. Troughton presided, and the others present included Messrs. A. Bate, J. B. Shattock, R. T. Simpson, G. E. Whineray, A. T. Maxwell, — Cuthbert, W. W. Moses, W. R. Aked, A. H. Robertson, — Eastwood, and A. Colbeck (Carnforth). The secretary (Mr. J. B. Shattock) reported that the meeting had been delayed in the hope that the Pharmaceutical Council would have evolved some satisfactory organisation. would have evolved some satisfactory organisation scheme. Several of the members had attended a meeting of the county Pharmaceutical Association at Preston, in the hope they might get a lead from that body, but were greatly disappointed to find a decision shirked, and responsibility transferred to the North-Western Federation, which also appeared to be putting off the evil day. A most important step was taken last year, when an employers' section of the Association was formed, under the title of the Lancaster and District Pharmacists' Federation, with Mr. H. Troughton as President and Mr. W. R. Aked as secretary. Several matters of importance to the trade had been dealt with. The Retail Pharmacists' Union had come into existence, and several local pharmacists had joined it. Reference was made to the presentation to the secretary and Miss Shattock, to the successful socials, and to the loss the Association had suffered by the deaths of two colleagues. Mr. W. Arkle (ex-President) and Mr. R. S. Angus (extreasurer). Mr. Edwards had left Lancaster to begin business on his own account at Blackpool, and the membership was now reduced to twenty-three. Mr. A. Bate (treasurer) reported that the deficit of last year had been wiped out, and there was a satisfactory balance in hand. The reports were adopted. The secretary read correspondence relating to the proposed botany class for pharmaceutical students at the Storey Institute, Lancaster. The Association had been asked to make a contribution for the purpose of providing such a class with equipment. It was decided that a sub-committee, consisting of Messrs. Troughton, Bate, Robertson, and the secretary, should interview the Education Committee. It was agreed that a summer outing be arranged to Sedbergh on August 17. The Association will continue in its present form this year. The following officers were elected: President, Mr. R. T. Simpson; Vice-President, Mr. H. Troughton; Treasurer, Mr. A. Bate; Secretary, Mr. J. B. Shattock; District Secretaries, Mr. F. N. Whitehead, Morecambe; Mr. A. Colbeck, Carnforth; Mr. Duckworth, Grangeover-Sands; Committee, Messrs. Robertson, Whineray, Aked, with the officials; Auditor, Mr. A. T. Maxwell.

London (Co.) .- A meeting of the executive committee of the London County Pharmaceutical Association was held on July 26, Mr. A. J. Wing (President) in the chair. Arising out of the minutes of the previous meeting, a short discussion took place on the question of organisation, and it was ultimately agreed that the work of the executive should be continued. A ballot was then taken for the election of the *President*, and resulted in the election of Mr. W. E. D. Shirtliff, who, in taking the chair, moved a vote of thanks to Mr. Wing for the able manner in which he had discharged the duties of President during the past year. Mr. J. A. Thompson was elected *Vice-President*. Mr. G. A. Tocher was reelected *Secretary*, and was accorded a vote of thanks in appreciation of his services during the past year. The following members were appointed to constitute the organisation and trade sub-committee: Messrs. Shirtliff, Thompson, Barnard, Keall, Murison, Wing, Skues, Jenkin, Noble, Milner, Keith, Melhuish, and Tocher. Messrs. Noble and Tocher were reappointed joint trade secretaries. A letter was received from the Pharmaceutical Society, intimating that the Council had agreed to confer with the Executive Committee of the Retail Pharmacists' Union on the question of local organisation. A statement of accounts for the year ended June 1921 was submitted. Levies from the district associations amounted to 381. 1s. and this, together with the balance in hand, totalled

58l. 4s. 2d. The expenditure was 39l. 3s. 10d., leaving a balance of 19l. 0s. 4d. The statement was adopted, and a vote of thanks accorded to Mr. J. Smith, who audited the accounts. The report of the Insurance subcommittee was adopted. Arising out of this report, the question of the supply of Virol was referred to the Pharmaceutical Committee. The annual meeting was fixed for October 27.

Southampton.—A meeting of the Hampshire Pharmacists' Association was held at Southampton on July 20. The scheme outlined by the Pharmaceutical Society, dealing with the future of local associations, was fully discussed. The consensus of opinion was that, so far as borough associations are concerned, little difficulty need be experienced in adapting the already existing organisations to the new conditions; but that it would be vastly different in the county areas, where the already existing difficulties of meeting would not be minimised. The distance which generally separates one pharmacist from another, and the lack of uniformity as regards the early-closing day, were considered serious obstacles to the holding of meetings, except upon very live questions. It was ultimately decided to leave this matter, and also the question of the formation of a county branch of the Retail Pharmacists' Union, over for discussion at the next meeting.

Summer Outings

In the Peak District

FOURTEEN members of the Manchester, Salford, and District Chemists' Assistants' Association met at Glossop, recently, and walked by the Doctor's Gate and Snake Inn path over Kinder Scout, lunching in picnic fashion by the way, and reaching Hayfield for tea. The heat was intense, and consequently the walking was done in a leisurely style.

Cambridge Chemists' Charabanc Outing

About fifteen members of the Cambridge Pharmaceutical Association and their wives went by motor charabanc to Brandon on July 21. After taking tea at the Ram Hotel, Mr. S. F. Barber (President) in the chair, the party strolled through the meadows and along the Brandon Creek. The return journey, via Mildenhall, commenced at 7 P.M., and just before arriving in Cambridge, which was reached as the daylight was failing, Mr. E. Saville Peck moved a vote of thanks to the committee responsible for the enjoyable outing.

A Manchester Gymkhana

On July 23 James Woolley, Sons & Co., Ltd., manufacturing chemists, Manchester, entertained their employees and friends, numbering about 500, at a garden party and gymkhana on the company's Athletic Club ground, Heaton Park. The sports ground was excellently laid out, and the events were contested with great enthusiasm. Mr. E. J. Woolley and the other directors acted as judges, and the prizes were presented by Mrs. Woolley. The evening was devoted chiefly to a cricket match (ladies v. gentlemen) and dancing, the music being provided by the band of the East Lancs Royal Engineers. In spite of the rather inclement weather, the fête was a great success.

Benevolent Fund Garden Party

Members of the Birmingham Pharmaceutical Association and their friends were entertained at a garden party given on July 20 by Mr. and Mrs. H. Buckingham, at their residence, Frederick Road, Aston, in aid of the Pharmaceutical Society's Benevolent Fund. The main feature of the entertainment was a whist-drive, the prizes for which were given by the höst and hostess, Mr. and Mrs. E. W. Mann, Mr. and Mrs. H. H. Marshall, and S. Maw, Son & Sons, Ltd. Clock golf and "bag o' beans" were the principal outdoor games, the latter being apparently a quite new game. At the conclusion, votes of thanks were accorded to Mr. and Mrs. Buckingham and to the donors of the various prizes. It is hoped that a sum of about 8l. will be realised for addition to the local collection for the Benevolent Fund.

A Day at Maws'

On July 21 the North London Pharmaceutical Association, with which were associated the North-Eastern and Eastern Associations, were invited to the sports ground of S. Maw, Son & Sons, Ltd., at New Barnet. Some travelled by road, the Eastern men by charabanc, but the great majority, being within easy distance, travelled by train to New Barnet. There were about 200 present, among them being Sir William and Lady Glyn-Jones, Mr. and Mrs. H. Skinner, Mr. and Mrs. A. R. Keith, Mr. and Mrs. Hildreth Glyn-Jones, Mr. and Mrs. A. R. J. Downing, and Mrs. A. H. Jenkin, Mr. and Mrs. J. Downing, and Mr. and Mrs. C. W. Andrew. The guests were received by Dr. and Mrs. Maw, Mr. and Mrs. A. T. Maw, Mrs. Redmond, Mr. and Mrs. A. F. Porter, and several others whose names and faces are well known to London pharmacists, such as Mr. Haynes, Mr. Malcolm, and Mr. Dixon. Tea was served at four o'clock, but long before that the "sports" of the North London Association were deeply engaged in making the most of a day out, whether at golf, tennis, bowls, croquet, cricket, or at other amusements. There was a foursome between Sir William Glyn-Jones and Mr. A. F. Porter with Messrs. Malcolm and Skinner, the two last mentioned managing to scrape home. Tea was served in the pavilion, which had been presented to the Sports Club by Mrs. C. T. Maw, and as the weather was at its best, it was possible to have the pavilion wide open for the cooling breeze. After tea, Dr. Maw said a few words of welcome, which were brightly responded to by Mr. J. Downing (Vice-President), North London Asso-ciation. A few remarks by Mr. A. F. Porter on the arrangements for the sports brought Mr. Skinner to his feet with the expression of opinion that, judging from the crowd present, the only way to get North Londoners to a mass meeting was to offer them some sport. A tournament in golf, croquet, tennis, bowls, and a cricket match followed; for this the chemists were captained by Mr. A. R. Keith, who led his team to victory by 87 runs to 85. Mr. Cyril Downing not only scored well, but took five wickets. Mr. Hildreth Glyn-Jones was also responsible for some useful batting and bowling. The finish of the tournaments brought the winners of the golf, Sir W. S. Glyn-Jones and Mr. W. H. Aukland, against Mr. Porter and Mr. Malcolm, but the last two had to admit defeat. Musical chairs followed after had to admit defeat. Musical chairs followed after refreshments, and the prizes were distributed by Mrs. Redmond, daughter of Dr. Maw. The winners were: Golf, Sir William Glyn-Jones, Mr. W. H. Aukland; Bowls, Mr. Angus and Mr. G. A. Tocher; Tennis (gentlemen) Mr. Walker, (ladies) Miss Bedford; Golf (ladies) Lady Glyn-Jones; Croquet, Mrs. Foot and Mrs. Bedford; Musical Chairs, Mrs. Swanston and Mrs. Higgs, (children's) Miss Bedford and Master French. There followed a few remarks by Sir William Glyn-Jones, who admitted that the North Londoners were good sports, as he had won two prizes and Lady Glyn-Jones lad won one. A hearty vote of thanks was accorded to Messrs. Maw, and after a response by Mr. A. F. Porter, to Messrs. Maw, and after a response by Mr. A. F. Porter, cheers were given for the "House of Maws," and a final one for Mr. and Mrs. Porter. The meeting closed with the National Anthem, and all went home, North, East, and North-East, tired but happy.

CLOVE OIL FROM CLOVE STEMS.—The first number of a new journal, "The Journal of Indian Industries and Labour," which is published in Calcutta, contains an article by S. T. Gadre, industrial chemist to the Government of the United Provinces, Cawnpore, giving the results of study of the yield of oil from clove stems. The bulk of the stem material was formerly exported to Germany, where it was distilled. Gadre found that clove stem oil corroded a copper still, and had to use a tinned one. He found a yield of about 4.5 per cent. The oil is pale yellow, deepening by exposure to light and air, and turning brown when heated. It conforms to all the requirements of the B.P. and U.S.P. The total eugenol by Umney's test was 93.09 per cent. The free eugenol by the method of Verley and Bolsing—said to give results within 0.5 per cent.—was 69.86 per cent.

Westminster Wisdom

By the "C. & D." Parliamentary Representative

TUNGSTEN SUPPLIES

It was stated in the House of Commons, on July 18, that approximately 10,000 tons of wolfram and allied ores had been disposed of since the Armistice by the Disposal Board. The balance undisposed of is about 200 tons.

COST OF TRADE BOARDS

The Chancellor of the Exchequer, on July 21, stated in the House of Commons that the total cost of the administration of the Trade Board Acts in Great Britain by the Ministry of Labour, including the travelling expenses and allowances of the representatives of employers and workers on the Boards, during the last financial year was 106,000%; the total staff, whole-time and part-time, is 209.

ADVERTISEMENTS BILL

A Bill was introduced into the House of Lords, on July 14, "to enable local authorities to require the removal of unsightly advertisements and to preserve the amenities of country and town." The provisions requiring the removal of unsightly advertisements are not to apply to advertisements exhibited within a house or shop or within a railway station. The Bill, which seeks also to regulate the size of hoardings, was refused a second reading.

PROGRESS OF LEGISLATION.

It was announced in the House of Commons that the Clinical Thermometers Bill will not be proceeded with this session. The Safeguarding of Industries Bill is expected to reach the House of Lords on August 15 and the Railways Bill on August 9. The House of Commons is expected to be prorogued on about August 20, this depending upon the time taken in the Upper House in considering the important Bills referred to above.

MONAZITE SAND

Mr. Baldwin stated in the House of Commons, on July 18, that certain British manufacturers are directly associated with companies owning deposits of monazite sand, and in addition the Travancore Minerals Co. is bound by the terms of its concession to sell monazite. sand direct and at a fair price to any bona-fide British firm that may desire to purchase the material in reasonable quantities and for purposes of manufacture, and has further undertaken to charge the same price for all purchases of lots of 10 tons and upwards.

GERMAN POTASH CONTRACT

Sir R. Cooper asked the President of the Board of Trade whether the German potash contract has been concluded; what profit the Government have made on this contract; whether the Treasury have collected such profit; and, if not, why this has not been done.

Sir W. Mitchell-Thomson, who replied, said the German potash contract has been concluded. The net profit on the contract amounted to 28,700%. This has not yet been paid to the Treasury. A balance is owing by the agents who distributed the potash on behalf of the Board of Trade. Steps are being taken to called this belowed. Trade. Steps are being taken to collect this balance.

POSTAGE ON PRINTED MATTER

According to a question by Sir Robert Clough in the House of Commons on July 20, circulars are being sent from this country to Belgium to be posted to addresses in the United Kingdom, so that the senders can benefit by the cheaper rates of postage in Belgium. Sir Harry Brittain also stated that "the biggest addressing firm in this country recently informed its clients that circulars can be posted more cheaply from Belgium." On July 21 the Postmaster-General stated that it is a breach of the Post Office monopoly to send addressed circulars abroad in bulk for posting abroad, and the sender is liable to penalties.

VACCINE LYMPH

Mr. Mills asked the Minister of Health on July 14 how the carcases of the calves used for the production of vaccine lymph at the Government Lymph Establishment

are disposed of after the lymph has been taken from them and the animals have been slaughtered.

Sir A. Mond replied that the calves used for the production of lymph at the Government Lymph Establishment are hired, and after slaughter the carcases are examined by the veterinary surgeon of the establishment. The carcases sold for food are subject to further examination by officers of the local sanitary authorities. He was advised that there is no evidence whatever that the carcases of vaccinated calves are unfit for fcod.

IMPORTS OF GERMAN DYES

The President of the Board of Trade gave, in the House of Commons, on July 18, the following statistics of the quantity and value of dyes, dyestuffs, and extracts for dyeing imported into the United Kingdom, consigned from Garmany registered during the hard of the Common of the Com from Germany, registered during the period January 1 to June 30:

Intermediate coal-tar products used in the manufacture of dyes (including aniline oil and salt, and phenyl-	Cwts.	£
glycine) Finished dyestuffs obtained from coal tar Extracts for dyeing	1,686 33,562 189	20,218 694,200 2,576
Total	35,437 .	716,994

UNEMPLOYMENT INSURANCE

Sir R. Thomas asked the Minister of Labour whether, seeing that a manual worker is entitled to unemployment insurance benefit whatever his earnings amount to when he is in work, and that a non-manual worker earning more than 250l. a year is excluded, he will consider the advisability of introducing legislation to remedy this

Sir M. Barlow, who replied, said the provision of the Unemployment Insurance Acts excluding non-manual workers whose rate of remuneration exceeds in value 250l. a year follows the precedent established by the National Insurance Act of 1911 for health insurance. It is scarcely practicable to have a corresponding limit of remuneration for manual workers.

REWARDING MEDICAL RESEARCH

Mr. Briant asked the Prime Minister, on July 21, whether, in view of the vital importance of medical research to the health of the nation, the prevention or cure of disease and the alleviation of pain, there can be provided a fund from which can be paid awards for discoveries or inventions which contribute to the general tously at the service of the public, pensions to those who have become totally or partially incapacitated in the course of research, and pensions to dependents of those who have directly or indirectly suffered as a result of their development. their devotion to research.

Mr. Balfour, who replied, said he could see no ground for differentiating medical from other forms of scientific research which may be of equal value to the community, and he doubted whether any system of pecuniary rewards would in the long run be beneficial to science or medicine. The difficulty of apportioning merit for even the greatest of discoveries is often overwhelming; monetary rewards would lead to jealousy instead of co-operation among research workers, and might prove to be an incentive to work for results which are sensational rather than for the advancement of scientific knowledge.

SAFEGUARDING OF INDUSTRIES BILL

The Committee stage of the Safeguarding of Industries Bill concluded in the House of Commons on July 20. A new clause proposed by the Government, which was to give power to exempt articles from the operation (Part I.) of the Act if after inquiries it was found that the key industry was not being established in the country upon a proper scale, was refused a second reading. A clause which was read a second time dealt with the means of ensuring the efficiency of the industries affected by dumping:

No Order shall be made applying Part II. of this Act to goods of any class or description unless the Committee to which the matter has been referred under Section 2 of this

Act have reported that in their opinion production in the industry manufacturing similar goods in the United Kingdom is being carried on with reasonable efficiency and economy.

Supporting the new clause, Mr. W. J. Uglow Woolcock said:

We realise fully that although we have to have resort to adventitious aid at the present moment, ultimately an industry stands or falls by its efficiency. Sir D. Maclean put a point which seemed plausible, and might possibly influence the decision of this Committee, but I suggest that, on reflection, he will see that it is not sound. He suggested that if with regard to Parts II. and III. it was essential to have a clause dealing with efficiency, it was much more essential with regard to key industries. The suggestion is that under Parts II. and III. a tariff will not be put on, because we are not sufficiently efficient in this country to warrant that being done, and therefore everything with regard to dumping and exchange shall be as though there were no Bill. That may be all right, but with regard to Part I. the real object at the back of their mind is that there shall be some safeguarding of the country in those particular industries. The point is that you must establish these industries in order to safeguard the country. It is a question of something entirely different from that of a substance which does not come into Part I., but comes within the clauses in reference to dumping or exchange. If, for example, there were a substance accidentally left out of Part II., but which really ought to be under Part II., that substance could be ruled out absolutely altogether on the question of dumping without any regard to the question of key industries. The industries which oome within Part I. of the Bill have to be established in this country at almost any cost, because they are essential. The things in Parts II. and III. do not matter, but key industries have got to be established for the safety of the nation. Therefore the suggestion that a fortiori substances in Part I. should be brought under this Amendment is not correct.

During the discussion on the schedule of goods chargeable with duty a proposal was made to leave out optical glass from the schedule, but this was rejected, as was also a proposal to except ophthalmic or spectacle lenses from the operation of the Act. Motions to leave out microscopes, field and opera glasses, and theodolites from the schedule were rejected. In that part of the schedule dealing with chemicals, sulphate of quinine "of vegetable origin" was exempted from the operation of the Act. This entry now reads:

All synthetic organic chemicals (other than synthetic organic dyestuffs, colours, and colouring matters imported for use as such, and organic intermediate products imported for their manufacture), analytical reagents, all other fine chemicals (except sulphate of quinine of vegetable origin), and chemicals manufactured by fermentation process.

New Books

Mardel, Professor J. C., and Chevob-Maurice, W.— Portuguese and English Commercial Correspondence. 8\frac{3}{3} in. \times 5\frac{5}{3} in. Pp. 128. 2s. net. E. Marlborough & Co., 51 Old Bailey, London, E.C. 4. [Contains model phrases, letters, circulars and business documents, commercial terms and abbreviations, tables of money, weights and measures in Portuguese and English.]

Martin, G., D.Sc., F.I.C.: Perfumes, Essential Oils, and Fruit Essences used for Soap and other Toilet Articles.

10 in. × 6\(^4\) in. Pp. 138. 12s. 6d. Crosby Lockwood & Son, 7 Stationers' Hall Court, Ludgate Hill, London, E.C. 4. [Dr. Martin is the author of several books on industrial chemistry and popular chemistry, and states in the preface to the volume under review that he finds there is a need for a short and clear account of the principal "scenting substances" and directions for testing them. The book consists of thirteen chapters dealing with raw, natural, and synthetic perfumery materials and their uses. The recipes for perfumes appear to be taken almost en bloc from Askinson's "Perfumes and their Preparation." The last-named is an American book, and Dr. Martin, in transcribing the formulas, does not appear to have taken into account the different capacity of the American and Imperial pint and quart.

Personalities

Mr. Thomas Hardy, chemist and druggist, Maryport, has been appointed a magistrate for the county of Cumberland.

SOUTHALL BROS. & BARCLAY, LITD., manufacturing chemists, Birmingham, have appointed Mr. W. G. Phillips as their representative in India. Mr. Phillips, who will sail early in September, will have no other agencies.

SIR LEONARD ROWLAND, chemist and druggist, Wrexham, was invested, at the annual meeting of the Provincial Grand Lodge of North Wales held at Towyn recently, with the collar of Provincial Grand Senior Warden.

Mr. Charles A. Hill, B.Sc., Ph.C., managing director of The British Drug Houses, Ltd., was operated on for appendicitis on July 16. We are glad to hear that the operation was successful, and that Mr. Hill is well on the road to complete recovery.

Wills.

Mr. Henry Edward Juler, F.R.C.S., 17 Alexandra Court, Queen's Gate, London, S.W., who died on April 23, left estate of the gross value of 14,216l. 3s. 2d.

Mr. John Stainer, J.P., chemist and druggist, Leonard Lodge, Folkestone, who died on March 8, left estate of the gross value of 8,738l. 14s. 2d., with net personalty 7,136l. 11s. 2d.

MR. JOHN HENRY BELL, J.P., chemist and druggist, Stapleford, Nottingham, who died on March 18, left estate of the gross value of 4,555l. 7s. 11d., with net personalty 1,302l. 10s. 5d.

MR. Chas. Hare, chemist and druggist, 36 Liverpool Road, Birkdale, Southport, who died on May 4, left estate of the gross value of 6,268l. 6s. 9d., with net personalty 1,394l. 5s. 2d.

MR. JOHN MARSH VANHOUSE, St. Valery, Shortlands, Kent, partner in Hale & Son, produce brokers, 10 Fenchurch Avenue, London, E.C., who died on May 12, left estate of the gross value of 2,157l. 11s. 11d., with net personalty 1,899l. 12s. 2d.

Birth

GEDDES.—At 331 Wimbledon Park Road, London, S.W. 19, on July 23, the wife of E. H. Geddes (E. H. Geddes & Co., chemical and drug merchants, 49 Leadenhall Street, E.C. 3), of a daughter.

Marriages

BUTTERWORTH—SMITH.—At All Saints' Church, Southport, on July 5, by the Rev. Trevor Lewis, Sheffield, assisted by the Vicar, Captain H. L. Butterworth, M.C., B.Sc., son of Mr. J. Butterworth, "Sumny Lawn," Swinton, to Elsie Barbara, youngest daughter of Mr. John L. Smith, chemist and druggist, 49 Norwood Avenue (John L. Smith, Ltd., chemists, Manchester).

CURTIS—JONES.—At St. Margaret's Church, Swinton, Rotherham, on July 21, Thomas Luke Curtis to Louisa Jane, daughter of Mr. John Jones, chemist and druggist, 38 Station Street.

DE GREEFF-BREAKEY.—At Charney Church and Ord Mill, Breakeyville, P.Q., Canada, on July 5, Captain E. M. De Greeff (R. W. Greeff & Co., Ltd.) to Muriel E., daughter of Mr. Dennison Breakey.

DUNLOP—ERSKINE.—At Wallace Green Church, Berwick-on-Tweed, on July 20, James Johnson, son of the late Mr. Dunlop, Mayfield, Reston, to May Stanley Roberts, eldest daughter of Mr. E. Erskine, chemist and druggist, Berwick.

Mansell.—Robinson.—At St. Thomas's Church, Brampton, Chesterfield, on July 19, Lieutenant Ralph Mansell, R.F.A., only son of Mr. J. Mansell, School House, Chesterfield, to Madge, only surviving child of Major W. B. Robinson (Robinson & Sons, Ltd.).

Deaths

ATRINS.—At 109 Queen's Road, Bayswater, London, W. 2, on July 22, the dearly beloved wife of Mr. John Atkins, pharmacist.

BLANCHFORD.—At 68 Northfield Avenue, West Ealing, London, W. 13, on July 24, Mr. Reginald [Rex] Arthur



MR. R. A. BLANCHFORD

Blanchford, chemist and druggist and optician, formerly of 76 High Street, Wimbledon, S.W. 19, and 34 Hill Rise, Richmond, Surrey, aged fifty-seven. After being in business at Richmond for several years, Mr. Blanchford acquired the business of the late Mr. T. E. Kirkman at Wimbledon in 1906. In both instances he had the reconstruction of the shop front carried out with artistic effect, the unusual height of the Wimbledon front being successfully masked by an ingenious use of coloured glass. Optical and photographic goods were always a feature in Mr. Blanchford's pharmacies; and in 1912 his knowledge of optics was recognised by his election as President of the Society of Chemist-Opticians. About the same time he joined the Surrey V.A.D., and, as a letter written by him to THE CHEMIST AND DRUGGIST shows (C. & D., II., 1912, p. 175), took a great deal of interest in the work, which he commended for the practical knowledge of first-aid that it afforded.

HARKNESS.—At 20 Minto Street; Edinburgh, on July 24, Mr. John Robert Harkness, of Harkness, Beaumont & Co., manufacturing chemists, Junction Bridge, eldest

MR. JOHN ROBERT HARKNESS

son of the late Mr. Peter Harkness, aged sixty-nine. Harkness began his long career in the drug-trade as a representative of the old firm Sang & Barker. He and Mr. William Beaumont travelled for Pinkerton, Gibson & Co., wholesale druggists, Edinburgh, and were subsequently partners with Mr. Gibson for some years. In 1899 they took over, together with Mr. James Anderson, the manufacturing business of James Anderson & Co., the style of which was changed to Harkness,

Beaumont & Co. Mr. Harkness had been away from business for more than a year past.

ELLIS.—At Aberystwyth, on July 20, Mr. Robert Ellis, J.P., Ph.C., 53 Terrace Road, aged sixty-nine. Mr. Ellis was a native of the town, in which he spent the greater part of his life; he was apprenticed there to the late Mr. John Davies, and shortly after passing the Major examination (in 1873) returned and commenced business on his own account. As years went on he took an increasing part in public affairs: he was elected to the town council in 1891, and to the Cardiganshire County Council four years later. More recently he was placed on the commission of the peace for the county, and became a Governor of the University College of Wales at Aberystwyth. He leaves a widow, a daughter, and two sons—Mr. H. C. Ellis, chemist and druggist, who is continuing the business, and Mr. R. S. Ellis, chemist and druggist, who is in the third year of study for the medical profession. The funeral took place on July 23.

HORRELL.—At Victoria Parade, Broadstairs, on July 24, Mr. Alfred Charles Julian Horrell, Ph.C. (Horrell & Son, chemists, 4 Albion Street), aged sixty-one. Mr. Horrell was the eldest son of the late Mr. A. E. Horrell, chemist and druggist, Dartford, and was apprenticed to his father. He passed the Major examination in 1882, and after further experience in Hastings and elsewhere purchased the business of the late Mr. E. Poore, Broadstairs, in 1885. Mr. Horrell was a member of the urban district council for twenty years, and served two terms of office as chairman. He was also a member of the Bradstow Lodge of Freemasons.

LIPPMANN.—The death is announced of Professor Gabriel Lippmann, who contracted a chill while in the United States, and died shortly

before the vessel in which he was returning to France arrived at Havre. Born in 1845 at Hallerich, Luxembourg, of French parentage, M. Lippmann studied at the Ecole Normale, Paris, became a professor at the Paris Faculty of Sciences in 1883, and was elected a member of the Academy of Sciences in 1886. In 1891 he obtained a direct posi-In 1891 he obtained a direct positive photograph of a coloured spectrum on glass, and the sensation created by this discovery is still remembered. The idea of a negative capable of producing colour prints naturally suggested itself, and Professor Lippmann made many efforts in this direction. The award of the Nobel Prize for Physical Science in 1998 was an international actional deprivation of his science.



in 1908 was an international acknowledgment of his scientific eminence. France recognised his merits by various official appointments, and by his promotion to the rank of Grand Officer of the Legion of Honour; he was also Professor Lippmann married, in 1888, the daughter of the well-known author, M. Victor Cherbulliez. The funeral took place at Montparnasse Cemetery, Paris; M. Daniel Berthelot, of the Paris Faculty of Pharmacy, was present and delivered an oration.

PLACE.—On July 24 (eve of St. James's Day), Mr. James Ashworth Place, chemist and druggist, aged eightyfive. Mr. Place, who was the father of Mr. E. Bland Place, M.P.S., 417 Moseley Road, Birmingham, was for many years in business at Pickering.

THE Poplar maternity and child welfare committee reports that free milk has been supplied to 2,430 applicants during the past two months, at a cost of 1,362l. After investigation, the committee has ordered the refund of 7561. from 124 persons in respect of milk supplied on false information.

MONUMENT TO LORD LISTER.—The Royal Society proposes to erect, in Portland Place, London, W., a monument to the memory of the late Lord Lister, who for some time resided in that thoroughfare. The memorial is to be of granite on Portland stone, with figures and ornaments in bronze. The requisite funds have been raised.

Trade Notes

C. L. BATH CRYSTALS are advertised in this number by

the Cooper Laboratory, Watford.

TORULA CARBOLIC SOAP, retailing at 5d. a 10-oz. tablet, is a new line referred to by Messrs. Evans Sons Lescher

GIBBS' DENTIFRICE.—Particulars of the "Ivory Castle" window-display in connection with Gibbs' Dentifrice are given in this issue.

SUMMER HOLIDAYS.—The premises of the London Rubber Co., 183 Aldersgate Street, E.C. 1, will be closed during the whole of next week.

ENLARGERS as an easy method of producing large pictures from pocket camera negatives is the theme of Houghtons' advertisement in this number.

EUCRYL WINDOW-DISPLAY COMPETITION.—Owing to the large number of entrants the publication of the results in the Eucryl Window-display Competition has been delayed, but may be expected soon.

SEED DRESSINGS. Tomlinson & Hayward, Ltd., Lincoln, call attention to seed dressings for farmers. The season will be an early one this year, and chemists should be prepared for the demand.

OPTIMUS CACHET MACHINE.—Particulars regarding this machine for filling cachets are given in the advertisement of W. Martindale, manufacturing chemist, 10 New Cavendish Street, London, W. 1.

Almanacks for 1922 is a reminder by Suttley & Silverlock, Ltd., Blackfriars Road, London, S.E. 1, that we are approaching the almanack season. It is not too early to arrange for the printing of these useful advertising

ENOLIN COMPETITION.—The results of the trade winners of the prizes offered in the recent competition organised by the proprietors of Enolin tooth-paste are given in this issue. The sum of 575l. is distributed among sixty-four prize-winners.

BOOK CATALOGUE.—The C. V. Mosby Co., medical publishers, 508 North Grand Avenue, St. Louis, have sent us a copy of their new illustrated catalogue of medical, dental, and pharmaceutical books. The list, which contains about 100 pages, is illustrated, and a number of the books are of special use to pharmacists.

HARPIC is the name of a product used for cleaning w.c. pans, which it is claimed is more efficient and better than spirit of salt. It is made by Harpic Manufacturing Co., 46B Goswell Road, London, E.C. 1. Harpic sells at 1s. 5d. a tin, the price being protected under the scheme of the Proprietary Articles Trade Association.

Eno's New Packing-Case.—In the advertisement of J. C. Eno, Ltd., in this issue will be found particulars of an ingenious "non-pilferable" case holding a gross of their Fruit Salt. The process of unpacking and preparing it for return is clearly illustrated, and it is claimed that the double operation can be carried out within three minutes.

LAVENDER FLOWERS.—To give us an idea of the quality of the lavender crop this year, Perks & Llewellyn, Hitchin, send us a big bunch of the flowers, which by its perfume is making the Editor's room the most pleasant place in the C. & D. offices. The firm grow lavender for perfuming their lavender preparations, and start distilling the flowers this week.

British Medical Association.—At the Newcastle meeting last week Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., were exhibiting various Oscols—colloidal metals and halogens—pulverettes, standardised liquors for diluting to the strength of tinctures, infusions and decoctions, Roboleine, bipalatinoids, palatinoids, etc. Booklets describing the exhibits were distributed to medical practitioners.

POLYGLANDULAR THERAPY.—In connection with the recent development in organo-therapy by which a combination of gland substances is administered, Burroughs Wellcome & Co. have issued Tabloid Mixed Glands No. 1 and 2 (for administration to male and female respectively) in bottles of 100. The various glands producing internal secretions are now recognised as interdependent, any irregularity in the supply of one secretion affecting the others in greater or less degree. The Mixed Glands were first used in infantilism, but have since been extended to the treatment of various affections in adults, such as hypotonic conditions, genital disturbances, mental conditions, and premature senility. The Mixed Glands No. 1 contains thymus gland, thyroid gland, pituitary gland (anterior lobe), suprarenal gland, didymin, and cerebrin; while No. 2 contains varium and mamos in place of didymin.

NEW Poisons Books,-Mr. James F. Wilkinson, medical-label printer, Bury Street, Pendleton, Manchester, sends us copies of the new poisons books he has just issued. The poisons book, under the Pharmacy Act, 1868, and Poisons and Pharmacy Act, 1908, is in the form laid down in the former Act, and it has an introduction which embodies the latest alterations (January 3, 1921) in the schedule. A classified list of poisons is given in each part of the schedule. The other registers are those required under the Dangerous Drugs Act Regulations, a separate book being devoted to raw optum and to the other drugs covered by the Act (medicinal opium, mcrphine, diamorphine, and cocaine), the different section indicated by index tabs at the top. The separate book being devoted to raw opium and another tions being indicated by index tabs at the top. The plan is to devote a few pages to the purchase register, and then a larger number of pages for the purpose of registering sales. The rulings are in accordance with the Regulations, and allow of plenty of space for the entries. At the commencement of the D.D.A. registers the Regulations under Sections 3 and 7 are printed, and a list is given of preparations falling within the Regulations. The Raw Opium Register costs 3s., and the Morphine Register 4s.

Business Changes

Mr. T. C. Price, chemist and druggist, has taken over the business of Mr. J. Roberts, West Street, Rhayader.

THE business of the late Mr. William Carter, chemist and druggist, Cross Street, Oswestry, is being continued by his widow.

THE offices of the Society of Chemist-Opticians have been removed from 25 Friern Barnet Road, London, N. 11, to 453 Caledonian Road, N. 7.

F. H. FAULDING & Co., wholesale druggists, have removed from 54 Great Tower Street, London, E.C. 3, to 76 Finsbury Pavement, E.C. 2. (Telephone, Clerkenwell

JULIAN W. LYON & Co., INC., New York City, have disposed of their stock in the Lyon Botanical Co. to S. P. Nickells and W. R. Rowland and others. The business will be carried on under the name of Nickells-Rowland Co., Inc. Julian W. Lyon & Co., Inc., will continue in the essential-oil line.

Information Department INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

A/217. Calichrisma H/227. Pellett's nail scissors M/257. Barton's dentisricium H/267. "Stadium" flash-lamp M/227. Rubisco L/227. Nyctal L/227. Nyctal
AH/227. Elixir formasal
A/237. Delanitory

M/267. "Stadium" nash-lamp batteries M/267. "Daynet" nail brush E/277. "Crea" E/277. Fletcher's custra E/277. Abudurahi

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Benzoate lard, R/277
Chiozza & Turchis wattle soap, E/227
"Dyso," B/267
Epsom salts, L/267
Flavouring essences, L/257
Hæmoglobin syrup, L/257
Iron funnels, enamelled, F/217
Magnesium ricinoleate, W/227

non Street, London, E.C. 4.

Morison's pills, H/187

New Skin, F/147

Phosphodyne, A/227

Salamac, O/197; O/207

Soothers, solid rubber, F/25;

Tanglefoot fly papers, B/207

Vioform, A/227

Yadil, B/187

Zinc oleas, R/277

Observations and Reflections

By Xrayser II.

Mr. Kellaway's Defence

of the penny rate for the postage of circulars rests upon a double fallacy—namely, that the object of his Department is to make, or, at least, to save money, and that a high rate of postage necessarily pays better than a low one. There are, of course, limits to the extent to which a service designed for the convenience of the public may with good reason be run at a direct loss, but when the indirect gain balances this loss there is no such limit. Now the circular post is essentially a business post, and to restrict its usefulness is to restrict business. That a high rate of postage has this effect cannot be denied, and Mr. Kellaway's policy thus strikes at the root of our commercial prosperity, and upon our commercial prosperity the Post Office, and every other department of the Government, ultimately depends. It does this in two ways; it restricts our own business activity and it gives (as I said previously) an unfair advantage to our foreign competitors. That a Government which is trying to handicap foreign competition by its Protection of Industries Bill should act thus is an apparent, but not a real, inconsistency. In each case it is snatching at a small, immediate gain regardless of the larger, indirect gain of a more liberal policy.

Meanness

surely, cannot justly be alleged against all the 4,000 retailers who are not members of the Proprietary Articles Trade Association, and I am glad to see that the secretary repudiates the charge as regards the great majority of them. That there is (as he says) the same proportion of ordinary human nature among chemists as among the rest of the community, and that (as he seems to imply) ordinary human nature is to some extent tinctured with meanness, is true, but there is not necessarily any meanness in accepting benefits which other people pay for. We, most of us, do that in one way or another every day of our lives, and bound together "in the bundle of life," so closely as we are, we cannot help it. The of life," so closely as we are, we cannot help it. The secretary attributes these abstentions largely to carelessness, in which he is no doubt right; but there are other causes as well. A rooted objection to the principle of the P.A.T.A. is one. This may be unreasonable, but it is perfectly honest, and in many of those who hold it respectable. They belong to the old school of self-reliant, independent souls who will have a free hand in their own affairs; they are, in fact, individualists to the backbone, a sturdy race somewhat out of date now, but, as I said, still worthy of respect. And there is another cause, though one can hardly call it a reason. The P.A.T.A. was for a good while regarded, not unreasonably, as a failure, most of the chief proprietors remaining outside of it, and before it had justified its existence a good many retailers had become hardened in a habit of indifference towards it. Whatever justification for such indifference there may have been in its early days there is none now, but bad habits are not easily cast off.

The Mercury-ointment Question

is still-with us. It is shameful that a man who honestly tries to supply what is wanted should be fined on a mere technical point, and in addition to that have the suggestion thrown at him of having been actuated by the meanest of motives. Here is another case for action by either the Pharmaceutical Society or the Retail Pharmacists' Union, and I think the onus of taking it lies on the former, seeing that the British Pharmaceutical Codex, for which it claims at least a "semi-official" character, gives a recipe for the weaker ointment. If, however, the Council is too much hurt, by its book not having been cited by the defence, to manifest any interest in the matter, the R.P.U. will do well to take it up. The root of the injustice is the making an official standard of the Pharmacopæia. The Pharmacopæia was intended for the guidance of doctors in prescribing and chemists in dispensing. The case in point shows how unfit it is as a standard for retailers. Were the only mercury ointment it recognises supplied whenever mer-

cury ointment is asked for, very serious, and even fatal, results might follow, and considering the impenetrable stupidity of certain of the public with regard to such matters it is beyond possibility to make the difference between the two preparations "sufficiently known" to prevent these senseless prosecutions. Unfortunately, members of the Bench are sometimes as stupid as anybody else. The cost of the preparations, as the chairman admitted, had no bearing on the question in dispute, but as the purchaser was in no way injured it was the only ground on which the seller could justly be condemned.

A Friend Asks

me what he should do with regard to his four or five customers who are habitual laudanum-takers. Should he give them notice that the supply will be stopped when the Dangerous Drugs Act Regulations come into force? And should he when that time comes recommend them to take a diluted laudanum exempt from the Regulations? I suggest in answer to the first question that a printed notice should be displayed in the shop informing the public of the fact that certain "dangcrous drugs" cannot in future be supplied unless prescribed by a doctor, and mentioning particularly those of them, such as cocaine, morphia, opium (with its tincture, laudanum), which are in most frequent demand. The second question is more difficult. I believe it will be necessary in agricultural districts—or at least in such as are mainly in the hands of small holders—to have in stock a tincture of opium of such dilution as can be legally sold, but I should hesitate to recommend this or any substitute to a laudanum-drinker. It would, to say the least of it, be extremely unpleasant to have, in defending such a sale, to incur the charge, however unjust, of attempting to evade the law, and it might be difficult to prove that one had supplied the exempted article only. If I know anything about those who "indifferently administer justice" there would usually be a strong prejudice against the defendant. These gentlemen, as a rule, know nothing of the conditions which so frequently beget the opium habit among agricultural labourers. I have answered my friend from the point of view of expedience only. The ethical aspect of the question I leave to those who have seen ditchers at work in a fen country.

The "American Journal of Pharmacy"

has very opportunely been calling attention to "new" foods. Most of them might be more correctly called neglected foods, and some of them are hardly even that. To mention only a few of the less well known, alfalfa soup may be a novelty, but if, as we are assured, the Irish anciently lived largely on clover neither this nor alfalfa meal as an article of human food is an entirely new departure; dosheen, I confess, is a stranger to me: it is said to be very similar to potatoes, but of 50 per cent. higher dietetic value; avocado is the "abbagado pear" or "subaltern's butter" of "Frank Mildmay," and is vulgarly known as the alligator pear; its "ripened marrow" was celebrated in Evelyn, and two varieties of it, beet-chard and artichokechard, have continued in occasional use ever since; firjoa I do not know; the kumquat is the Japanese orange introduced to us by Dampier in 1699; the lichi is a Chinese plum, also known to Dampier, and to other European travellers in the century before him; the loquat is another Chinese fruit which has been likened to a plum, though the name means rush-orange; it has long been naturalised in some parts of Australia; mang is, I presume, the wellknown mango; papans poke I can but guess at: is it a species of phytolacca, a variety of which, known as Virginian poke, is used as a substitute for asparagus? Most or all of the other names in the list before me are familiar enough, though comparatively little use is made of the vegetables to which they refer. One of them is kohlrabi, a crop of which I saw growing in my own neighbourhood recently.

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Editorial Articles

Pharmaceutical War Memorial

Ir looks as though the official scheme of a memorial to the chemists and chemists' assistants who fell in the Great War is to be allowed to drop. It will be remembered that seventeen months after the Armistice the Pharmaceutical Society sent out circulars to local associations giving details of a record that it was suggested should be made of those connected with pharmacy who fell in the war and of the services rendered by chemists who remained in civilian life. As regards the second object the scheme was a fantastic one, and we hardly think that the persons who devised it expected it to come to fruition. When giving an outline of the scheme (C. & D., I., 1920, p. 624) we said:

We hope the scheme will succeed, although we are still of opinion that a more fitting recognition of the war would have been a Roll of Honour placed in a prominent position

on the premises of the Society.

It now appears that a circular has been sent out to local associations by the Pharmaceutical Society announcing the abandonment of the scheme. "The difficulties in securing the material for a suitable record have been found, in the case of most associations, to be insuperable," is the official excuse, which, while placing the blame on the associations, does not explain that the scheme as put forward was impracticable. Is this to be the end of the matter? For the honour of pharmacy we hope not. We suggest that the Council should devise a dignified method of recording the names of those who fell in the war, so that future generations will remember the sacrifices that were made by pharmacy for civilisation in the terrible years 1914 to 1919. Most of the London societies of standing, such as the Chemical Society and the Institute of Chemical Industry, have long since completed their war memorials. These, as a rule, take the form of a record-in letters of gold on white marble-of the names of those who fell in the war. This would not be an expensive method of recording the names of those in pharmacy who made the supreme sacrifice. Nor would it be difficult to compile the list, apart from the fact that the long delay has made it more difficult to verify the particulars. The CHEMIST AND DRUGGIST published early in 1919 lists of registered chemists, chemists' assistants, and wholesalers' assistants who died in naval or military service during the war. The first list of registered chemists contained 115 names, while there were given in the second list about 500 names of chemists' sons, assistants, and apprentices. We think that the least that can be done is to record these names in a prominent place, such as the Examination Hall, in the Society's premises at Bloomsbury Square. Records are already made of those persons who have made bequests of money to the Society. Surely those who gave their lives for humanity are worth some recognition. There are many hundreds of pharmacists now back in civil life who were in the Forces during the war, and we hope that for their comrades' sake they will not allow the Council to shirk its duty. It would be a distinct service to

pharmacy if a committee of ex-Service men could be formed to press this matter upon the Council. Such a committee might also go into the question of the parsimonious administration of the War Auxiliary Benevolent Fund. This fund, which was so handsomely contributed to by the whole drug-trade, had a balance in hand at the beginning of the year of about 20,000l. The grants being made now do not even equal the dividend income. A committee of inquiry should be formed to look into the administration of the fund. Steps should be taken to bring the fund to the notice of ex-Service men who require financial assistance.

The Position of Mercury

DEALING with the outlook for mercury in our issue of May 21 last, we expressed the opinion that "until there is a general recovery in the demand the market may easily work to a lower level yet." The leading importers were then quoting 111. 10s. per bottle, and the course of the market has since justified the above opinion, as the interests which hold the great bulk of the present stocks recently cut their price to 111. These stocks must now be fairly heavy, as another large arrival of Spanish took place last week on the top of the liberal receipts accounted for in the last few months. The lowest price recorded during the recent pronounced slackness of demand was 101. 15s. per bottle, although it is claimed that some business was done at a trifle less. It may be pointed out that the above price closely approximates to pre-war high levels. Judging from the comparatively poor condition of the world's demand, which was almost brought to a standstill by the highly inflated prices which ruled during the greater part of last year, when the market reached as high as 271. per bottle, there is no doubt that the actual consumption of mercury has, like many other commodities, suffered a severe contraction. This, however, can only be regarded as temporary, as the demand is sure to develop again on a more normal scale in a general industrial revival. Trade stocks have presumably been largely used up, and should call for some replenishment when consumers consider that the price is at a sufficiently reasonable and safe level. It is quite obvious that the outlet for the metal has been more or less held up by the decreased call for those chemical preparations for which its use is essential. Its consumption for amalgamation purposes in connection with gold-winning has to some extent lost ground, this being attributed to the fact that mining operations all over the world have for some time past been hindered by adverse economic conditions. In the course of this year the marketing of first-hand supplies has been rendered the more difficult by the fact that considerable quantities of mercury which were originally acquired at much higher prices have been offered for resale in the European and American markets. A good portion of such resales recently related to the Far East, chiefly Japan and China, and this largely explains the abnormally reduced re-exports from this side. It is, however, understood that the demand for the Colonies and the Far East is now picking up again a little. The Board of Trade figures, reduced to bottles, given below are interesting, and clearly disclose the slump in re-exports:

Brunne III 10-CA	rhori	•			
		Impo	rts		
June January-June		1913 11,01 7 39,844	1920 1,475 21,494	1921 5,140 16,036	bottles
		Re-exp	ports		
June January-June	•••	1913 2.783 18,985	1920 841 13-333	1921 1,150 5,353	bottles

It will be seen that our total imports for the six months (16,036 bottles) were about 5,450 bottles short of the returns for the same period last year, against which just about one-third thereof was re-exported-namely, 5,353 bottles. These figures, compared with the corresponding six months in 1920 and 1913 respectively, show a substantial falling-off. The main market-restraining factors at present, and which may continue to make their presence felt until supply and demand come closer together, possibly at further concessions, may be summed up in a few words. It would seem that owing to the poor home demand and the small export takings, the home stocks have been steadily accumulating for some months past, while much the same has happened in the United States, where considerable quantities arrived since last year both from Italy and the Far East, part of which are held in bond waiting for disposal. It must be borne in mind, on the other hand, that the world's production, which was raised to a high level within the war period, has since declined heavily, and is presumably substantially less than it was for some years before the war broke out, although no reliable statistics are available to that effect. The larger producing countries have had a big setback in their respective outputs, although this does not apply to Italy, where the falling-off was comparatively slight so far as returns are available. This will be seen from the table given below, which was compiled by the United States Geological Survey from official statistical publications of the respective countries (the figures represent

ties).				
Country United States Austria Hungary Italy Russia Spain Mexico and others	1911 21,256 20,694 2,339 28,072 43,912 4,500	1912 25.064 22.428 2,494 29.406 	1913 20,213 24,104 2,606 29,513 36,619 4,000	1914 16.548 25.000 2.500 31,541 — 28.000 4.000
Total in bottles	120,773	120,813	117,055	107,589
Country United States Austria Hungary Italy Russia Spain	1915 21,033 25,000 2,500 28,954 800 35,925	1916 29,932 25,000 2,500 32,129 1,100 23,369	1917 36·159 25·000 2·500 31·494 500 25·147	1918 32,883 17,637 2,000 30,512 ————————————————————————————————————
Mexico and others	4,000	4,000	4,000	5,500
Total in bottles	118,212	118,030	124,800	105,209

The most conspicuous decrease for 1918, as shown above, is Spain, whose output, curiously enough, in spite of the high prices that ruled, then fell from 25,147 to 16,677 bottles, which setback was, of course, due chiefly to the small production of the Almaden mines. From Austria and Hungary no official statistics have been obtainable since the outbreak of the war, and the authority referred to stated that until more definite information becomes available it had been considered best to make no change in the names of European countries (that were affected by the new map) as they appear in the table. The estimate of production for "Mexico and other countries" is said to be based on very meagre data. While Mexico is understood to have produced 63 metric tons, or 970 bottles, in 1917 and 164 metric tons, or 4,821 bottles, in 1918, other contributions included under the same heading were Algeria, which produced 529 bottles in 1917 and 306 bottles in 1918. Peru, in the latter year, contributed forty-four bottles. Dealing with later production in the United States or relating to the last two years, we have on several occasions drawn attention to the further serious reduction which has taken place in that country. It is

reckoned that the output has fallen to a rate representing, roughly, 20,000 bottles per annum, and there is, of course, no prospect of any notable recovery in the American output, especially in the present state of the market, unless new mines should be discovered. Assuming, therefore, that other large world's producers see no inducement at present to push their operations, and, based on the present estimated American output, which would show a deficit of about 12,800 bottles and over 16,000 bottles respectively compared with the years 1918 and 1917, the present world's production can hardly be more than 95,000 bottles, which would thus be by far the lowest seen for many years. The American mines are now producing at about the same rate as in 1913. The much smaller world's production must have eventually a steadying effect on the market, given a normal demand. Italy now controls a greater proportion of the total world's output than any other countries, especially making allowance for the fact that the important Idria mines were made part of her terri-The following represent the tory since the Armistice. London and New York average prices for a number of years:

Year	London	New York	Year	London	New York
	\pounds s. d.	\$		£ s. d.	\$
1908	8 4 8	44.84	1914	7 15 0	48-31
1909	8 12 0	46.30	1915	14 10 0	87:01
1910	8 16 0	47.06	1916	17 2 10	125.49
1911	8 4 11	46.54	1917	22 4 3	106.30
1912	8 2 10	42.46	1918	?	123.17
1913	7 9 2	39.51	1919	20 9 5½	92.15

Price Protection Illegal in Spain

WE referred recently (C. & D., June 25, p. 135) to the events which followed the introduction of a drug tariff by the syndicate of pharmacists in Barcelona, leading to the arrest of a number of prominent members of the profession of that town on a charge of illegal assembly and coercion. Now the pharmacists of the province of Saragossa are also in conflict with the authorities for a similar step. In view of the constant fluctuations in the prices of proprietary articles, which rendered it a matter of great difficulty to fix sale prices for these preparations in such a way that they should leave a reasonable margin of profit, the committee of the official college of pharmacists decided to appoint a commission of three members to elaborate a method of establishing prices to the public on a uniform basis. It was decided on general lines to fix the sale price on the basis of a profit of 30 per cent. in the case of specialities sold to the public at under 5 pesetas, and 25 per cent. for preparations above this amount. In order to assure the practical application of this scheme all the owners of public pharmacies were called upon to sign an agreement that they would adhere to the prices fixed by the commission, an invitation which was accepted by all. The commission thereupon established the sale prices for a certain number of articles, each preparation being considered individually and the margin of profit ranged, according to each special case, from 15 to 30 per cent. A short time after the introduction of this scheme an inquiry was made into the matter by the authorities, with the result that proceedings were instituted, not against all the pharmacists who had adopted the scale of sale prices, but only against the three members of the commission, "for having conspired together to increase the price of specialities which are acknowledged to be articles of prime necessity to the This attitude of the authorities has caused great uneasiness among all Spanish pharmacists, as it implies that it is illegal for a corporation to establish

by common agreement of its members sale prices of certain articles. It is pointed out that in adopting the above scale of prices no pressure was brought to bear upon the participants, who adhered to the agreement of their own free will, and without undertaking any obligation in the form of penalties or otherwise should they fail to observe the prices mutually agreed upon. In this connection attention is drawn to the divergent attitude adopted in dealing with exactly the same question by the authorities in Spain and in France. Whereas in Spain the fixing of sale prices for specialities is declared to be illegal, the general association of the pharmaceutical syndicates of France is permitted to require of its members that they should sign an undertaking whereby they pledge themselves on their honour, and, further, under a fine of 100 francs, not to sell any one of the specialities of which a list is given until the manufacturers of these preparations shall have granted to the retailing pharmacists a minimum profit of 30 per cent. on the price marked thereon. A pharmaceutical contemporary in Spain sums up the position as follows: "What would happen in Spain if a similar course were adopted? How the manufacturers of specialities would howl with indignation who maintain that 5 per cent. is an adequate margin of profit. Would not the Press say that we are robbers? Inflexible justice would hold its sword over our heads, and in its indignation would commit the signatories of such an undertaking to prison, as was recently the case with some of our professional brethren for an offence that was certainly not greater than this would be, while it would be quite possible that the outraged public would be content with nothing less than the extinction pharmacy."

Index-number Fluctuations

Since we began the publication of our drug index-number, we have been asked at various times by subscribers for figures relating to dates prior to those dealt with in our monthly tables. These tables, including the one on p. 57 of this issue, virtually cover a year; it may be convenient, therefore, if we give comparative figures for the earlier portions of the years 1920 and 1921 side by side. They are as follows:

		Drugs 19	20 Dressings	Drugs 1921 Dressing				
January February March April May Juno July	 	315-2 324-3 336-4 345-8 344-6 362-7 341-4	390-2 357-6 405-8 400-4 402-4 408-2 445-2	239.0 226.0 215.8 212.8 209.7 207.5 200.4	268-8 250-6 250-6 256-8 256-2 244-4 244-4			

It will be noticed that the fluctuations in drugs have not always proceeded pari passu with those in surgical dressings—e.g., drugs were highest in June 1920, and dressings in the following month. These variations are more fully discussed in the notes prefixed to each of the monthly tables.

The Bed Buc.—Lord Carmichael, when Governor of Madras, visited the King Institute of Preventive Medicine at Guindy, where he was told about the researches that were being carried on, especially about Christopher's investigations into the connection between kola azar and the bed bug. In his speech afterwards the Governor said he had little knowledge of the habits of bed bugs, but he had the authority of an American poet for saying it was efficient:

"The May bug, he has wings of gold;
The June bug, wings of flame;
The bed bug has no wings at all,
But he gets there all the same."

Drug Index Number

The decline in prices has continued during the last month, the extent being seven points. There are now only two chemicals over the index of 300—and, strange to say, these are two very common ones—ferri ammon. cit. being 315, and mag. sulph., which has remained constant for over twelve months, 471. The tendency in some cases is almost below what might be called a stability figure, and in the case

of sodii benz. the reaction upwards is already indicated. An index of 200 would seem to imply that prices are not likely to fall much further. The items showing deflation are conf. sennæ, inf. gent. co., lin. saponis, lin. terebinth, ol. morrhuæ, phenacetin., phenacon., resorcin., tinct. chlorof. et morph., ung. acid. boic., and ung. zinci. Hexamina and sodii benz. are higher. Surgical dressings are stationary at 244.4.

Drugs, Chemicals, and Galenicals

C=cost ; I=index.	1913		July	1921	June	1921	Мау	1921	April 1921		Mar. 1921		Feb. 1921		Jaq. 1921	
1	Qty.	o.	o.	I.	o.	I.	o	I.	0.	I.	o.	I.	o.	I.	o.	I.
Ac. acetylsal	2 lb.	88	176	200	176	200	176	200	144	164	160	182	176	200	208	225
Bismuth. carb	3 lb.	308	513	166	513	166	513	166	513	166	513	166	630	204	630	204
Conf. sennæ	4 lb.	64	128	- 20 0	136	212	136	212	144	225	144	225	144	225	144	225
Ext. casc. sag. liq	6 lb	88	232	264	232	264	232	264	232	264	232	264	232	264	232	264
" cinch. liq	1 lb.	54	117	216	117	216	117	216	117	216	117	216	164	303	135	250
" ergot. liq. —	2 lb.	198	300	. 151	300	151	300	151	344	173	344	173	428	216	535	268
Ferr. amm. cit	3 lb.	57	180	315	180	315	192	337	192	337	192	. 337	204	358	204	358
Hexamina	4 oz.	-15	44	293	42	280	48	320	48	320	48	320	48	323	56	373
Inf. gent. co. conc	12 lb.	204	336	164	3 36	164	366	164	336	164	336	164	336	164	336	164
Lin. camph	5 lb.	90	170	188	170	188	170	188	178	198	178	198	190	211	240	266
" camph. amm. m	8 lb.	144	252	175	252	175	252	175	252	175	252	175	292	202	304	211
, sapo. meth	10 lb.	120	215	179	245	204	245	204	245	204	245	204	245	204	245	204
" terebinth	6 lb.	108	139	128	141	130	120	111	120	111	141	130	150	139	171	158
Mag. carb. levis	2 lb.	22	28	128	28	128	28	128	28	128	28	128	- 28	128	28	128
" sulph	14 lb.	14	66	471	66	471	66	471	66	471	66	471	66	471	66	471
Ol. morrhuæ	10 lb.	80	100	125	114	142	114	142	115	144	140	175	185	231	180	225
Phenacetin	4 oz.	18	48	211	56	311	60	333	60	333	60	333	64 .	355	- 76	422
Phenazonum	4 oz.	24	60	250	64	266	64	266	60	250	60	250	64	266	68	283
Potas. brom	4 lb.	88	92	104	92	104	92	104	96	109	96	109	96	109	108	123
,,- iod	2 lb.	298	456	15 3	456	. 153	456	153	456	153	456	153	480	161	480	161
Quin, sulph	4 02.	80	224	280	224	280	224	280	224	280	224	280	224	280	224	280
Resorcin	l oz.	5	14	280	16	320	16	320	16	320	16	320	17	340	18	360
Sodli benz	3 oz.	13	15	115	ı 1 3°5	104	13.2	104	15	115	15	115	15	115	16	123
" salicyl	4 lb.	132	240	181	240	181	240	181	228	172	228	172	228	172	240	181
Sp. chlorof	2 lb.	96	127	132	127	132	127	132	127	132	127	132	143	149	146	152
Syr. ferr. ph. co	4 lb.	36	84	233	84	233	84	233	84	233	84	233	84	233	98	271
" Eastonii	3 lb.	54	123	227	123	227	123	227	123	227	123	227	123	227	134	248
Tr. chlor. et morph. '85	2 lb.	80	115	143	120	150	120	150	120	150	120	150	115	143	124	172
Ung. ac. borici	7 lb.	77	17 5	227	182	236	182	236	182	236	196	254	196	254	196	254
,, zinci	4 lb.	88	100	1 1 3	108	123	108	123	108	123	120	136	120	136	140	146
Index Number	Index Number 100 200 4 207 5				20	9-7	2	12.8	21	5.8	22	86-0	23	39.0		

Surgical Dressings

	1 91	3	July 1	921	June 1921		May 1921		April 1921		Mar. 1921		Feb. 1921		Jan. 1921	
_	Qty.	o.	o.	I.	O.	I.	o.	I.	σ.	I.	o.	I.	o.	ī.	σ.	I.
Bandages	144	1:44	316-≀	220	316-8	220	316.8	220	316*8	220	316-8	220	316-8	220	345-6	240
Gauze	72 yd.	72	230-4	320	230•4	320	242.0	3 36	242*0	336	219-6	305	219-6	305	237-6	330
Lint	28 lb.	460	1064	231	1064	231	1190-0	239	1190.0	239	1190-0	239	1190-0	239	1260-0	270
" boric	56 lb.	624	1568	25 1	1568	251	1652.0	264	1668•0	267	1668-0	267	1668-0	267	1736.0	278
Cotton wool	84 lb.	756	1512	200	1512	200	1680.0	222	1680.0	222	1680-0	222	1680-0	222	1680.0	222
Index Number	100	,	244-	1	244	4	256	2	256	8.8	250	.6	250	6	268	8

Pharmaceutical Society of Great Britain

Qualifying Examination Results

THE following are the results of the Pharmaceutical Society's Qualifying examination held in London this

	No.	Pai	кт I .	Part II.		
	No.	Passed	Absent	Passed	Absent	
Entered for whole Examination Entered for Part II. and referred sub-	1,073	509	18	266	10	
ject in Part I	24	18	1	8	2	
Entered for Part I.	77	29	-4	_	_	
Referred subject in Part I. only Entered for Part II.	2	1	_	_		
only Referred subject in	76	-		34	1 .	
Part II	54	- /	_	30	1	
	1,306	557	23	338	14	

Referred in one subject: Botany, 94; Chemistry, 67; Physics, 9; Materia Medica, 32; Pharmacy, 91; Poison Law, 12. Total, 305.

PART I.

The following have satisfied the examiners:

Addey, L. F., Barnsley Ainsworth, A., Warrington Allnutt, J. J. A., Newbury Andrews, M. S., St. Clatworthy, Doris E., Clap-ham Clayton, E. H., White-Leonards

Archer, W. H., Keighley Armitage, James, Putney Arnall, John H., Norwich Askew, Benjamin, Bingley Askew, Benjamin, Bingley Atkinson, R., Workington Balf, George L., Moston Banbury, J. W., Henley Barcock, W. G., Bedford Barker, E., Levenshulme Becker, M. N., Ealing Bennett, A. W., Streatham Bennett, J. V. P., Blackpool Bennett, T. L., Blackpool Bond, John G., Liverpool Bonham, A. J., Balsall Heath Heath

Bower, C. E., Cinderford Boynton, Fred, York Bradburn, A. G., Milton Bradshaw, S. B., Watford Bramhill, T. W., Grimsby Bray, D'Arcy A., Chiswick Brearley, Evelina, Stockport

Brooke, D. R., Chippenham Brown, F. R., Cleethorpes Brown, Henry, Seedley Burbank, C. A., Oxford Burns, N. H., Denaby Main Burton, H. F. J., St. Leonards

Calkin, H. B., Salcombe Campbell, Ethel M., Paddington

Cater, R. H., New Malden Chapman, C. A., Amiens Cheeseman, W., Netherfield Cheesman, W. A., Portsmouth

Cheetham, E. G., Louth

haven

Clegg, John, Chorley Clemow, Stanley G., Lee Collis, L. J., Bishopston Cooke, F. C. J., Balham Cooper, R. E., Brondesbury Costiff, L. H., Leighton Buzzard

Coulson, Doris A., Kennington

Crawley, C., Aylesbury Cromack, A., Kensington Cronin, Eugene, Manchester

Crook, T. H. V., Deane Crosby, R. W., Harrogate Crowther. R. T., Stockport Danks, Percy, Darwen
Davis, John, St. Albans
Davis, Kathleen, Bradford
Davis, W. O. N., Cardiff
Davison, W. G. Crewe Davis, W. O. N., Cardiff Davison, W. G., Crewe Dittmar, H., Stockton Douglas, F., Workington Drake, A. H., Nuneaton Ebborn, R. A., Stevenage Eccleshall, R., Birmingham Eckersall, E., Bolton Edgecombe, H. R., Derby

Askalani, M. M., El Streatham . Elliot, E. S., Rothbury Evans, R. A., Llandudno Evans, W. M., Cardiff Evans, W., Wattstown Evenson, C. P., Bangor Exley, O., Rillington Farmer, A. X., Beckenham Faulkner, W. P., Smeth-

wick

Fawthrop, R. W., Hackney Fildes, G., Chequerbent Findlay, W. A., Newport Fish, W. H., S. Elmsall Fox, L. H., Darlington Frank, Sarah A. F., Scarborough

Fraser, C. D., Harrogate Fryar, S., Warrington Fulleylove, H. C., Glascote Gallimore, R., Fenton Gardner, H. M. S., Ton-

bridge Garner, W. B., Holland Pk. Garnham, S. S., Aberdeen George, Ernest, Burslem Gibbs, Helen V., Uptonon-Severn

Grandey, Alice J., Brom-

Gray, Albert, Oldham Greenleaves, W. C., Frod-

Griffith, O. J., Holyhead Griffith, T. G., Ruthin Griffiths, W. J., Henllan Griffiths, W. J., Henllan Grimshaw, J. N., Rushton Gurney, A., Dartford Halsall, J. W., Liverpool Hands, C. H., Shrewsbury Harper, Muriel J., Handsworth

Harrison, F., Sunderland Harrison, H. E., Gilling

ham
Harry, R. H., Neath
Haworth, C., Old Trafford
Hayman, V. F., Sidmouth
Hayward, F. J., Harham
Henry, T., Southampton
Heys, J. H., Stalybridge
Hinton, J. J. C., Halifax
Hirst, Bertha, Wath-onDearne

Dearne Holley, G. G., Treforest Holt, Richard, Rochdale Hopper, J. W., Scarborough Horlington, P. G., Sunder-

Horsfall, A. L., Hebden Bridge Hosier, G. W., Coulsdon Hotter, J., Billingborough Houghton, C. F., West

Ham Hufton, W. R., Oldham Hughes, H. E., Llandudno Hurdman, F. W., Wolverhampton

Hutchins, R., Brighton Jeffs, G. B., Barry Dock Jenkins, Gwladys M., Pontardawe

Jenkins, J. F., Brynmawr John, D. T., New Trede-

Johnson, F., Netherfield Johnson, N. W., King's Lynn

Jones, B., Llandyssul Jones, L., Erdington Jones, W. J., Shrewsbury Karnofsky, J., Johannesburg Kay, J. D., Derby Keefe, A. O., Poole Keen, R. J., Ilfracombe

Kennerley, E., Chester Kidd, William, Sandsend King, Oliver, Sudbury Kingston, E. T., Bath

Kinley, P. N., Douglas Knevett, C. B., Catford Knight, G. W. V., Bath Labraham, P. W., Rugby Lacey, Ada C., Highgate Lee, G. M., Whitchurch Lee, John, Darlington Lewer, H. N., Bolton Leyland, G. E., Twickenham

Lillis, J. P., Preston Lindsey, Janet, Putney Line, Dorothy, Edgbaston Llewelyn, A. E., Nottingham'

Lloyd, B. R., Cardiff Lomax, W. J., Mottram Longland, J. W., Rishton Lyles, Bertha, Bradford McCaig, J. W., Hammer-smith

McNeal, J. F., Balham Mahoney, L., Bournemouth Maley, G. H., Douglas Marley, J. O., Minehead Marsland, Kathleen E., Denmark Hill

Marson, S., Coventry Martin, Adeline M., Hereford

Meredith, E. M., King's Cross

Meynell, A. R., Easingwold Millard, A. H., Wellsway Miner, T. E., Sheffield Minett, Winifred M. Taunton

Monk, P. D., Alfreton Montgomery, M. Wilmslow

Wilmstow
Moore, T. W., Forest Gate
Morgan, C., Llantwit-Major
Morgan, J. C., Le Havre
Morgan, T. J., Pontardawe
Morgans, D. T., Towyn
Morris, A. V., Birmingham
Morrison, H. A. Brixton Morrison, H. A., Brixton Mowson, C. B. D., Stour-

port Munday, W. F., Chesterfield

Niblett, H. E., Sling Nicholls, B. J. V., Bristol North, W. B., Ottery Nosworthy, A. B. W., Bristol

O'Dell, J. B., Hailsham Oswell, Margaret M., Burton

Owen, S. M., Chester Oxley, George, Hailsham Packwood, Joseph, Edmonton

Parkinson, F. R., Foston Pass, W., Macclesfield Perkins, Marjorie H., Leicester

Peters, F. B., Nantwich Phillips, Doris C., Bath Pickard, Daniel, Hornsea Pickering, A. C., Blackpool

Platt, H., Stanningley Potts, J. H. P., W. Hartlepool

Powell, Eric, Alsager Powell, F. A., Alsager Preston, A. H., Four Oaks Prince, S. S., Connah's Quay

Quarterman, C. A., Bedford Quick, D. E., Salisbury Rankin, G. W., Bath Relfe, W. E., Hollington Reynolds, Irene M., Bognor Reynolds, J. M., Sheffield Richards, J. T., Tonypandy Richardson, S. H., Ripley Rigby, R. B., Ashtonunder-Lyne Roache, W., Oswestry Roberts, F., Seacombe Robinson, R., Brentford Robinson, Sim, Blaenavon Rogers, Winifred C., S. Woodford Rowland, A. E., Hull Rudkin, Albert, Sheffield Rye, Frank, Swindon Sansom, C. G., Mansfield Scott, E., Streatham Seekings, J. W., W. Bridgford Selkirk, C. W., Notting-Shaw, Alfred, Ammanford Shaw, F. L., Atherton Sheard, H. V., Farsley Short, F. W., Seaforth Slater, J. A., Rishton Smallwood, C. L., Winchester Smith, Doris A., Silloth Smith, F. R., Colchester Smith, Leonard, Leicester Spenceley, C. T., Bradford Spencer, F. L., Leicester Spencer, H., Accrington Staddon, F. C. L., Brighton Stapleton, E., Bulwell Stevens, Mary E., Brighton Strawson, F. G., Ludlow Strong, Annie D., Houns-

Stubbs, P. O., Stalybridge Swanwick, G. J., Hitchin Tallett, E. R., St. Albans Taylor, R. S., Chesterfield Tedcastle, C., Wallasey Thomas, Gwilym, Tonypandy Thomas, I. G., Landore Thompson, Katharine G., Mile End Tilley, A. G., Surbiton Tomlinson, J. H., Nottingham
Toomey, G. V., Gloucester
Tripp, W. C., Clevedon
Tudor, H. G., Bristol
Tunnicliff, A. W., Rugeley
Vyse, F. H., Walsall
Wainwright, S., Barnsley
Walkden, Charles, Hyde
Walker, D. N., Salford
Ward, Cecil, Burnley
Ward, E. A., Cardiff tingham Ward, E. A., Cardiff Watson, F. J., Lincoln Watson, J. H., Cleator Moor Westley, C. W., Blackheath Whatmore, F. J., Cardiff Whiteley, B., Elland Whitfield, H. L., Sacriston Whitworth, Alec, Grimsby Wilks, Frances M., Lox-Willey, G. N., Thirsk Williams, G. E. W., Mold Williams, J. D., Acock's Williams, N. J., Birmingham Wilson, D. S., Cranfield Wilson, E. R., Pwllheli Wood, A. W. E., Littlehampton

Woods, Joseph, Everton Woodward, A. D., Purton Wright, S. P., Wigan Wrightson, G. E. W. W.,

PART II.

Liverpool

The following, having 'satisfied the examiners in Part II., have been registered as chemists and druggists:

Adams, David, Benoni Andrew, F., Scarborough Anslow, W. E., Stockwell Anthony, Elizabeth A., Abercynon · Atkins, R. V., Newcastle Badrock, E., Pendleton Barker, Joseph, Rusholme Blankley, A. W., Brierley Hill Blanks. Kathleen Braintree Boyd, Ella, Rochester Bridger, F. L., Eastbourne Brocklebank, Celia E., Caton Carrington, O. L., Chipping Norton Cooper, W. G., Clapham Cowling, Georgina, Mum-Dewhurst, Edgar, Bolton Down, R. T., Bristol Dyson, C. H., Ellon

Eastwood, E. M., Brighton

Stuart, David, Wigan Stuart, P. W., Manchester

low

minster Floyd, Robert, Burnley Gale, Maggie S., Gates-head Gregory, J. M., Wigan Hadfield, C. E., Barnet Harries, D. E., Highbury Heron, Gwendoline E., Sidmouth Hile, W. J. R. B., Ilford Hoff, Ena M., Leominster Holt, F. S., Hull Hubball, G., Walsall Ingledew, Eliza M., Cardiff Irving, H. O., Weaste Jameson, J. C., Stockton Gwenllian Jenkins, Denbigh Lambert, G. H., Pietermaritzburg Lefebvre, Ida M., Havant Lewis, G. A., Ferryside Lewthwaite, Gwendolin C., Sydenham

Evans, W. R. A., West-

Lockwood, F., Salford Luntz, H., Cape Town Metcalfe, E. F., Halifax Morgan, D. P., Maesteg Morgan, O. F., Moseley Morris, J. R., Leicester Neale, O. T. S., High Wycombe
Newey, W. V., Bromsgrove
Oakes, J. L., Derby
Rendell, Evelyn D. C., Cardiff Richards, I. G., Gelli Pentre Roberts, L., Portmadoc Robinson, W. G., Liverpool Rouse, W., Scarborough

Abraham, E. V., Don-

Salusbury, B. M., Liverpool Shepherd, G. F., Sheffield Smith, E. C., Stapleford Targowsky, I., Clapham Taylor, J. J. F., Acocks Green Underwood, V. A., Saxmundham Walker, T. G., Hetton-le-Hole Warren, C. M., Barry Whalvin, W. A. S., Nottingham White, S., Nottingham Whitty, W. E., Small Heath Wright, W. D., W. Brom-

PARTS I. AND II.

The following, having satisfied the examiners in Parts I. and II., have been registered as chemists and druggists:

caster Adams, E. G. H., Doncaster Adams, F. W., Leighton Buzzard Adderley, Frank, Longton Allan, F. W., Crouch Hill Allwood, E. H., Leicester Alsop, H. F., Kirkby Stephen W. H., St. Andrews, Leonards Argent, S. J., Shrewsbury Aspinall, J. L., Blackburn Bailey, E., Newport Pagnell Baldry, R. E., W. Kensington Barber, Grace P., Ashbourne Barker, W. G., Hull Barnes, F. W., Liverpool Barrit, J., Little Ouseburn Baxter, S. A. E., New Malden Bayley, Isabel M., Uppingham Begley, Denis, Liverpool Bennett, Norah H., Horn-Bennetto, B. Columb Minor В. Betts, C. F., Nottingham Billington, H., Barnsley Bingham, Harold, Grimsby Bird, C. A., Shoreditch Birkumshaw, S. E., Clay Cross Blackburn, H., Atherton Blackwell, J. E., Ashbourne Blackwood, Martha J., Westcliff Bloom, A. L., Westminster Bluring, R. H., W. Hampstead Bond, Hilda G., Beeston Booth, J. E., Bolton Bowman, S., Herne Hill Bradford, H. J., Eastbourne Bream, H. N., Leicester Brecknell, H., Urmston Breckon, F. P., Grosmont Bridge, D., Manchester Broomfield, R. J., Weymouth

Brown, Eric, Weybridge Brown, R. H., Wigan Bryer, L. C., Bridgwater Buckley, John, Oldham Buncher, G. I., Leicester Burgess, Lucy, Altrincham Carnell, Dorothy L. D., Lee Carter, W. G., Oxford Casley, B. L., Exeter Chalmers, F. B., Worcester Cheadle, D. R., Ipswich Chipperfield, M. P. H., Foulsham Christie, G. S., Leeds Church, C. E., Cullompton Clapham, Dorothy Sheffield Clark, John, Letchworth Clayton, Gwendoline, W. Bridgford Colborne, Kathleen, Ipswich Collins, N. C., Horncastle Collins, T. C., Maidstone Coombs, C. H., Notting Hill Cooper, A. C., Trowbridge Cooper, H. T., Wolverhampton Cordy, F. B., Felixstowe Corfield, J. H., Stretford Corlett, W. H., Liverpool Cottrell, W. J., Salisbury Coulthard, C. E., Westonsuper-Mare Cross, Elsie V., W. Hampstead Cumming, A. J., Crewe Cunningham, A. J., Nottingham Curran, F. C., Bristol
Davies, D. E., Llanfyllin
Davis, F. G., Evesham
Dawson, Doris M., Sidcup Deer, Ella W., Harrogate Dennis, W. G., Manchester Dodgson, W. V., Ramsey Douglas, E. A., Deal Draper, M. S. G., Southwark Dudeney, H. B. Y., Burgess Hill Dunbar, J. P., Manchester Egan, T. C., Jesmond Elborne, H. G., Oulton Broad

Ellis, S. H. T., Portsmouth Evans, C., Bridgend Evans, D. E., Llanfyrnach Farrar, R. C., Sowerby Bridge Finch, C. C., Felixstowe Firth, Harry, Boscombe Flowerdew, Winifred M., Battersea Fluck, W. H., Wellingore Fortnam, S. F., Rugby Fox, C. A., Ilkeston Francis, Mary G. D., Southwick Francis, N., Southsea Frith, J. E., Vauxhall Fulcher, Dorothy Bromley Fuszard, C. B., Blandford Geddes, James, Barking Gee, William, Moston George, W. M., Bedford Greatorex, J., Matlock Green, Edmund, Brigg Grice, R. W., Newtown Griffith, J. H., Blaenau Festiniog Guy, Hubert, Ripon Hainsworth, E., C. Bramley Hall, F. L., Broadstairs Hannant, R. C., Gorleston Hardy, J. E., Stockingford Harris, R. T., Redditch Harry, G. F. Torquay Harwood, J. E., Sowerby Bridge Hearn, P. W., Great Yar-Heath, Arthur, Oldham Heathfield, H. G., Lincoln Hemmaway, J. T., Peterborough Hemming, F. W., Beeston Hessian, L. J., Warrington Heywood, F. C., Peterborough Hill, F. W., Southend Hill, Harry, Warrington Hillman, G. C. S., Bayswater Hohly, Ida G., Finchley Holden, C. W. E., Luton Hopson, C. E., Nottingham Hoskings, W. H., Newbury Howell, .H. L., Swindon Hubbert, W. H., Boston Hudson, Reuben, Rishton Hughes, E. O., Wandsworth Hull, R. S., Sunderland Humphreys, AdaВ., Northwich Hunt, S. H., W. Hampstead Hunter, T. G., Stockton Hunter, T. G., Stocken, Iliffe, H. W., Hampstead Inkley, J. W., Nottingham Innes, Robert, Bolton Jackson, J. A., Long Ditton Jeeves, W. R., Cambridge Jenkins, H., Porthcawl Jones, E. E., Walsall Jones, G. E., Llandrindod Wells

Jones, H., Newport, Mon. Jones, Ll. L., Erdington Jones, Ll. T., Shrewsbury Jones, R., Penygroes Joughin, F. J., Altrincham Key, Violet E., Bexley Heath King, J. M. B., Ealing Kinnison, E. J., Leeds Kirby, R. F., Windsor Knight, Kate, Leeds Knight, L. D., Torquay Knott, M. H., Tenbury Wells Large, Gilbert, Liverpool Latham, W. G., Hereford Lawson, Frank, Lancaster Lawton, E. R., Southsea Leather, V. S., Bromley Leman, L. P., Clapham Lengden, W. A. V., Cheltenham Lewis, G. P., Holborn Lewis, G. M., Liverpool Lewis, L. C., Haverfordwest Lloyd, D. L., Newtown Lubrough, S. W., Stoke Newington Lucas, O., Wavertree McArthur, D., Millbank McLoughlin, T., Seedley Maddox, Herbert, Bristol Marshall, Albert, Aston Martin, Edith L. G., Martin, Ed Streatham Measures, S. B., Nottingham Milne, A. S., Woodford Green Milward, J. H. L., Buxton Mucklow, M. E., Lincoln Naylor, J. A., Manchester Nevell, H. L., St. Albans Nicholson, J., Benington Norrish, R. E., Cambridge Oakley, G. E., Seaford Ogden, W. J., Seedley Palmer, Gladys R., Westminster Parson, A. E., Bristol Parsons, H. H., Worcester Parsonson, J. T., Sudbury Payne, E. E., Blackheath Peet, Margaret E., Lincoln Phillips, W. G., Paddington. Pickerill, Oris, Macclesfield Pollard, Baden, Huddersfield Pomfret, W., Blackburn Pratt, C. B., Stratford Puckrin, G. M., Whitby Quine, J. T., Douglas Quine, Nancy L., Lonan Quinlan, Mary J., S. Kensington Radford, Griffin, Alfreton Ramsay, A., Bournemouth Rees, H. P., Aberystwith Riley, H. H., Bury Roberts, Idwal G., Dereham Roff, Ella G., Twickenham Rollings, W. V., Dunstable Rosenberg, I., Sunderland Roughton, J. W., Luton Rushton, D. J., Birmingham

Rushworth, B., Healey St. Leon, R., Marske-bythe-Sea Salmon, S. H., Hastings Scott, Irene J., Muswell Hill Sharp, E. R., Billesdon Simons, Fred, Cleethorpes Sims, J. C., Pleasley Hill Sinderson, R. N. Market Weighton Smart, W. R., Oxford Smith, A. M., Birmingham Smith, E. G., Treherbert Smith, G. E., Leamington Spa Smith, P. H., Northampton Smith, R. E., Hull
Smith, T. S., Burnley
Smith, W. G., Colchester
Southgate, W. K., Ipswich
Spencer, J. H., Plaistow
Spreckley, H. C., King's Lynn Starkey, T. F., Leices-Stephens, E. G., Birkdale Stocks, Leonard, Sheffield Summers, R. H., Wellingborough Sumner, G. H., Rickmansworth Swaits, R., Morecambe Tait, D. C., Edinburgh Tapley, E. W., Chester Taylor, H., Clitheroe Taylor, S. E., Epsom Thomas, A. G., Gloucester Thomas, Evan, Llanelly Thompson, C. H., Middlesbrough Thorne, W. T., Condover

Tibbett, H. G., Luton Trenowden, F. J., St. Ives Trower, R. F., Bourne mouth Ulyat, Bertie, Cambridge Verrier, C. R., Bristol Vosper, D. J., Plymouth Vosper, P. R., Bristol Wadsley, H. J. A., East Rudham Waite, H. S., Rothernam Walklet, F., Smallthorne Walkyier, A. H., Richmond Walley, Helen, Waverton Walmsley, H. C., Burnley Walmsley, W. D., Baxenden Warburton, H., Blackburn Ward, F. H., Liverpool Warlow, F. R., Bristol Wheatley, Madeline, Wanstead Whitwell, H. E., Peterborough Whitworth, P., Burton Wickham, H. F., Basingstoke stoke
Williams, J. C., Nevin
Williams, R. A., Oxton
Willis, N., Darlington
Wilson, J. F., Hastings
Wilson, W. A., Brixton
Witherick, S. J., Margate
Wolfe, C. W. H., King's
Lynn Lynn Woodhouse, H. R., St. Anne's-on-Sea Wright, O. G., Stratford. on-Avon Wright, W. O., Goole

Wyatt, L. A., Wimbledon

PHARMACY SPORTS - EDINBURGH. THE HIGH JUMP. PHARMA MINOR

THE HIGH JUMP.

A student of the Edinburgh Royal Dispensary School of Pharmacy gives a sporting aspect to the recent examinations.

DR. WARBURG, professor of botany in the University of Berlin, and editor of "Der Tropenpflanzer," is shortly proceding to Palestine to assume the directorship of the Agricultural Experimental Station in that country.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres ENGLAND

Birmingham.—The first meeting of the newly elected Pharmaceutical Committee was held at the chamber of commerce on July 18. The Committee consists of Messrs. J. T. Bell, H. Buckingham, E. S. Francis, G. Knowles, (Councillor), J. Poole, H. Rigg, W. Shakespear, J. Wakefield, W. H. Whittock, R. E. Cooper, and C. T. Thonger. Mr. W. H. Whittock was unanimously re-elected Chairman, and Mr. J. W. Atkinson was co-opted to fill a vacant seat on the Committee. Mr. F. Smith was reappointed Secretary. The checking report for Marcli scripts was approved as showing a satisfactory degree of accuracy in pricing. According to the report of proceedings and statement of account of the Pharmaceutical Committee from June 1, 1920, to May 31, 1921, the number of prescriptions dispensed in the area during the year 1920 was 1,115,264 and the value 39,546l. 6s. 11d. The average value of the prescriptions was 8.51d. (drugs 3.39d. and fees 5.12d.). The Committee's expenses for the year (including cost of checking) worked out at 0.96 per cent. The number of persons and firms supplying drugs and appliances on the panel on May 31, 1921, was 145 (138 dispensing and 7 non-dispensing); the number of shops 198 (186 dispensing, 12 non-dispensing).

Essex.— A meeting of the Insurance Committee was held on July 26 at Finsbury Circus, London, E.C., Mr. J. H. Burrows (chairman) presiding. The finance committee reported that chemists are now being paid monthly. The medical benefit sub-committee reported the receipt of a communication from the Ministry of Health, together with draft of Regulations relating to the arrangements for the supply by practitioners of drugs and appliances to persons resident in a rural area at a distance of more than a mile from the nearest chemist. They recommended the Committee to continue the present procedure, subject to an insured person having the right to obtain his drugs and appliances from the practitioner in whose list he is included or from a chemist by giving notice at any time to the Committee. The Pharmaceutical Committee had notified that the Retail Pharmacists' Union is now acting as the agent for that Committee in connection with the checking of prescriptions. Two additions to, and one withdrawal from, the panel were reported. The sub-committee furnished the following particulars in regard to the cost of dispensing during the years 1917 to 1920 inclusive:

Average total cost

			-		F	er insured	l
	Number of		Ingredier	at Dispen-		person for	,
Year	prescriptions	Total cost	prices	sing fees	prescrip		
			_	_	tion	Doctors	
						prescribe	ð
		£ s. a	l. d.	d.	d.	d.	
1917	629,782	16,918 2	3 3.56	2.88	6.44	17.97	
1918	716,166	22,108 13	4.04	3.37	7.41	25.67	
1919	680,922	22,951 19	5 4.32	3.77	8.09	24.14	
1920	770,310		4 5.22	5.03	10.25	30.18	

The report was adopted. Mr. J. H. Burrows was reelected chairman, and Mr. E. N. Buxton vice-chairman, of the Insurance Committee for the ensuing year.

Hampshire.—A meeting of the Pharmaceutical Committee was held at Southampton on July 20, when the secretary reported that as the result of the recent election the following gentlemen formed the new Committee: Messrs. Baker, Davis, Dodridge, Gare, Martin, Smith, Upson, and Wride. Mr. C. H. Baker (Cosham) was elected Chairman; Mr. Martin (Christchurch) was reelected Secretary and Treasurer; and Mr. Owen (Christchurch) was elected Auditor. The secretary was instructed to thank Messrs. Barlow and Bilson for their services on the pharmaceutical services sub-committee, and to request them to continue to represent the pharmacists thereon; as an additional member the chairman consented to act upon this committee. The secretary reported that the result of the postcard referendum on the question of

"tenure of office" showed a majority of approximately five to one in favour of biennial elections. It was decided to report this fact to the Insurance Committee, and to recommend that the term of office should be extended accordingly. The meeting decided to excrcise the powers conferred upon it by the Medical Benefit Amendment Regulations (No. 4), 1921, and to request the Insurance Committee to set up forthwith the dispensing sub-committee. Messrs. Gare and Wride were elected as the pharmacists' representatives; and Mr. Allershot, was co-opted a member of the Pharmaceutical Committee.

Middlesex.—The bi-monthly meeting of the Insurance Committee was held at the Guildhall, Westminster, on July 25, Mr. W. W. Kelland presiding. The pharmaceutical service sub-committee reported that they had appointed Mr. C. W. Andrew and Mr. H. Skinner as members of the joint services sub-committee, and that Mr. members of the joint services sub-committee, and that Mr. G. W. Barber had been appointed chairman of the pharmaceutical sub-committee. The finance and general purposes sub-committee recommended the payment of the following accounts: To doctors—capitation drugs, second quarter, 1921, 225l. 19s. 6d.; to chemists: April accounts, 1921, 3,918l. 10s. 4d.; to a doctor for drugs supplied in emergency, 7s. The accounts were passed. The joint services sub-committee reported that they had investigations. services sub-committee reported that they had investigated the case referred to them by the chairman of the Insurance Committee relative to the repeating by a chemist of a prescription issued to an insured person by a medical practitioner. The doctor stated that he had been informed by the patient that the Insurance prescription had been copied and repeated at intervals by a chemist at a fee of 1s. each time. The chemist stated that the insured person, who was a regular customer of his, called and asked if he could possibly oblige her by repeating a prescription which she had from the doctor some weeks earlier. He found the prescription was "Mist. stimulans," and that being of a simple nature and effective for her complaint, he complied with her request. This was the first occasion he had been asked to repeat a panel prescription. He expressed his deep regret to the Committee and to the doctor. The sub-committee recommended that the chemist be informed that the Committee regarded his action as an objectionable practice, and that the matter be referred to the Minister of Health with a view to an official instruction being issued. The recommendation was adopted.

Northamptonshire.—At a meeting of the Insurance Committee on July 23, the benefits sub-committee reported that the Pharmaceutical Committee had protested against the compulsory opening of shops during fixed hours on Sundays, but the sub-committee was not prepared to recommend any alteration. In reply to Mrs. Chamberlain, who asked what the chemists wanted instead of a fixed hour, the clerk said the chemists complained that the fixed hours were never taken advantage of by people. The public called at all hours, and the chemists would prefer to serve their customers in that way rather than be compelled to open their shops within specific hours. A member thought it would be better for the chemists to have a set time for business on Sunday rather than "be in their shirt-sleeves all day." No alteration was made in the existing rule.

West Midland Joint Committee.—At a meeting of the executive committee, held at Birmingham on June 17, under the chairmanship of Mr. G. Townsend, J.P., a letter, dated May 18, was received from the Leicestershire Insurance Committee with reference to the reports submitted by the pricing office to panel committees relating to prescribing by practitioners, stating that, in the opinion of the Insurance Committee, closer co-ordination with the panel committee was necessary in this matter. The secretary was directed to arrange that copies of reports (Schedule B) submitted to panel committees shall be supplied to the respective Insurance Committees. A further letter, dated May 6, was received from the secretary of the National Association of Insurance Committees, stating that the executive is in agreement with the views expressed by the Joint Committee, and that it has kept the matter before the Ministry

of Health. Reference was also made to a circular recently issued by the Association (L. 106), in which the subject is referred to. It was observed that the circular in question did not deal with the specific point submitted by the Joint Committee with regard to the objections to the adoption of any "datum line" in connection with Insurance prescribing, but it being considered that the action already taken by the Joint Committee had secured a modification of the attitude of the executive and its officials, it was resolved that no further action be taken. A letter from a firm of chemists requesting a quotation for the pricing of doctors' private prescriptions dis-pensed by the firm was discussed, and the secretary was directed to reply that the Joint Committee is precluded from undertaking such work. The secretary reported that the negotiations for the placing of a collective order for prescription-books for various committees had now been completed, and that a contract had been signed with the Lamson Paragon Supply Co., Ltd., for the supply of 22,500 books. The following committees had entered into the arrangement: Warwickshire, Northamptonshire, Burton, Coventry, Dudley, Northampton, Smethwick, Walsall, West Bromwich, Wolverhampton, and Worcester City. As requested, the secretary submitted a statement showing the effect of the application of the Whitley Council scale of salaries to members of the staff. At the present rate of bonus, the application of the scale would entail an increase of remuneration in the aggregate, excluding the supervisor and chief assistant, of 424l. per annum. It was resolved that the Joint Committee be advised that it is not desirable that the Whitley Council scale should be applied to members of the staff. question of increases to salary to members of the staff was then considered, and it was agreed to grant an increase of salary to each member of the staff of an amount equal to 15 per cent. of the present total remuneration, and that the bonus payable in each case be reduced to the extent of two-thirds of the recommended increase in salary, thus providing a net increase of 5 per cent. in the total remuneration, the secretary to be excepted, and in the case of the supervisor an increase of salary to 225l. per annum and a reduction of bonus to 75l. per annum, making total remuneration 300l. per annum; the recommendation to be varied in the case of Miss W. Arter. Accounts amounting to 207l. 3s. 11d. were approved and recommended for payment. The percentage of error per item from the scrutiny of the Cantral Checking Bureau are 0.03 for New 1.000. the Central Checking Bureau was 0.03 for November 1920, 0.04 for December 1920, and 0.04 for January 1921. following statement shows comparative costs of pricing bureaux in England and Wales during 1920:

				Cost p		No. of	
			No. of	1,000 p	res.	committe	es
Name of burea	ıu	1	prescriptions	8.	d.	in group)
East Anglia			2,134,246	33	11	17	
South - West 1	Lanca	shire					
and Cheshire			1,805,602	33	10	11	
South-Eastern			3,180,173	33	1	$\bar{12}$	
South-Western	•••		2,077,797	32	0	14	
Lancashire			1,183,087	28	7	10	
London	•••		4,903,047	27	11	1 5	
West Riding			2,253,189	27	11	5	
Wales			1,780,184	26	11	17	
North East Midl	and	•••	1.979,568	25	71	12	
North of Englan	d		2,225,738	25	0	15	
Lancashire Insur	rance	Com-					
mittee			1,523,178	24	94	1 8	
Central Counties			1.742,786	24	81	8	
West Midlands	•••	***	2,339,800	19	8.3	17	

Report re Checking of Scripts by Central Checking Bureau.

	Total o	f										
	accoun	ts									Per cen	
	checke	$^{\mathrm{d}}$	Ad	d	Ded	uct	Ad	ld :	Ded	uct	Claimed	Allowed
Month	£ s. 6	d.	s.	d.	S.	d.	8.	d.	S.	d.	£	£
Nov. 1920	839 5	10	5	61	3	10	4	81	3	10	0.01	0.005
Dec. 1920	744 12	8	7	11	5	01/2	3	0	5	01	0.02	0.014
Jan. 1921	850 18	3	4	31	- 3	01	4	0	3	0	0.007	0.006

Wiltshire .- At a meeting of the Pharmaceutical Committee, held at Trowbridge on July 20, Mr. R. T. Christopher was elected *Chairman*; Mr. A. C. Allen, Secretary; and Mr. J. Sharp, Auditor, for the ensuing two years. Messrs. A. C. Allen (Swindon), E. A. Chard (Westbury), and W. Couch (Chippenham) were co-opted members of the Committee. It was resolved to ask the Insurance Committee to form a dispensing sub-committee, the chairman and secretary being the nominees of the Pharmaceutical Committee.

July Drug Tariff

The following are the alterations for July in the Insurance Drug Tariff for England and Wales:

July Drug Tariff

The following are the alterations for July in the Insurance Drug Tariff for England and Wales:

Lower-Acetanliidum, 54d. oz.; acid. hydrobrom. dil. 1s. 1d. lb.; acid. salicylic. B.P., 2s. 8d. lb.; acid. tarnie, 8. 2d. lb.; acid. salicylic. B.P., 2s. 8d. lb.; acid. tarnie, 1s. 2d. oz.; atrop. 1b.; adeps larase laydrosus, 1s. 9d. lb.; alcinum. 1bld. 0z.; ammon. ichthosulph. 4d. oz.; amyli pulv. (maize) 5½d. lb.; aq. aurant. flor., 2s. 4d. lb.; aq. rosse, 1s. 10d. 1b.; argent. proteinat., 1s. 7d. oz.; atrop. sulph., 2s. 6d. gram.; bals. Peruv., 1s. 5d. oz.; cats. lact., 5s. lb.; conf. semp. 2s. 8d. lb.; copaiba B.P., 5s. lb.; dec. sarsæ Jam. co. (ex. conc.), 6s. 6d. lb.; ext. bellad. sicc., 1s. 9d. oz.; ext. bellad. vir., 10s. lb.; ext. ergotæ, 7s. 8d. oz.; ext. flic. liq., 1s. 10d. oz.; ext. prosecus, 1s. 10d. oz.; glycerinum, 2s. 2d. lb.; glycer. exid. tannic., 5s. 8d. lb.; ext. opii liq., 4s. 3d. lb.; co., is. 4d. oz.; ext. proceed. iq., 2s. oz.; ext. nuc. vom. liq., 8s. 6d. lb.; ext. opii liq., 4s. 3d. lb.; st. opii sicc., 3s. 10d. oz.; glycerinum, 2s. 2d. lb.; glycer. acid. tannic., 5s. 8d. lb.; glycer. belladon. B.P.C., 7s. 2d. lb.; hydrarg. perchlor., P., 6s. 11d. lb.; inf. buchu, ex conc., 9s. lb.; inf. rhet, ex conc., 4s. 6d. lb.; lin. belladon. meth., 5s. 8d. lb.; lin. methyl. salicyl. B.P.C., 3s. 6d. lb.; lin. methyl. salicyl. B.P.C., 3s. 6d. lb.; lin. methyl. salicyl. B.P.C., 3s. 6d. lb.; lin. apm. meth., 2s. 2d. lb.; liq. ammon. fort., 10½d. lb.; liq. epispasticas, 2s. oz.; laqformaldehyd. 1s. 11d. lb.; liq. epispasticas, 2s. oz.; laqformaldehyd. 1s. 11d. lb.; liq. epispasticas, 2s. oz.; laqformaldehyd. 1s. 1dd. lb.; liq. epispasticas, 2s. oz.; laqformaldehyd. 1s. 1dd. lb.; liq. epispasticas, 2s. oz.; laqformaldehyd. 1s. 1dd. lb.; liq. opii sed. B.P.C., 5d. db.; id. methyl. salicyl. propertyl. salicyl. co.; land. propertyl. property

Imports of Pharmaceutical and Synthetic Chemicals

April 1—June 30, 1921

We give below particulars of the imports of the leading pharmaceutical and technical chemicals for the second quarter of the year as compiled from the London Customs Bill of Entry. Compared with the first quarter of the year, there is a decided decline in the volume and value of the imports, and this notwithstanding that the legislation now in progress would tend to increase prices in the autumn or towards the end of the year. A feature of the imports is the large quantity of aspirin and sodium salicylate brought in from France; the same applies to a less extent to amidopyrin, phenazone, hexamine, and coumarin. The imports of bromide salts from Germany and elsewhere show a considerable decline, but at the

same time large stocks are held here. Among the countries not mentioned in the table are Canada, which supplied hexamine, 275l; tannic acid, 530l.; and various small parcels of pyrogallic acid. Hungary supplied aspirin, 624l.; sodium bromide, 588 cwt.; bromine, 134 packages; and creosote carb., 661l. Other imports not mentioned in the table included: Denmark—potassium bromide, 220l.; Norway—hexamine, 117l.; Japan—ichthyol, 375l. Czecho-Slovakia appears to be making progress in the output of chemicals, and among our imports from that source not mentioned below are the following: Milk-sugar, 40 cases; potash permanganate, 7,507l.; potassium chlorate, 120 casks; silver nitrate, 1,888l.

_		FRANCE	GERMANY	HOLLAND	BELGIUM	SWITZERLAND	SWEDEN	U.S.A.
								
Acetanilide			911.	-	_		-	421.
		11,939 <i>l</i> . 1,802 <i>l</i> .	1,819 <i>l</i> . 698 <i>l</i> .		_	3,000%.	a =	2,3911.
		311.	321.	= 1	· =	=		_
Amyl nitrite		_ =	_	-	_	_	. —	381.
		- 1	500 <i>l</i> .	_	=		<u> </u>	2901.
		1301.	3001.	2251.	=	Ξ-	_	~ _
Benzaldehyde		_		451.		_	-	
Benzoic acid			189 <i>l</i> .	-		_	-	_
		801.	3001.	= 1	_	_	_	=
,, potash		" - <u> </u>	614 cs., 146l.	24cs.	_	_	_	_
,, soda		_	38 cwt.	_	-	_	-	_
		_	134 pkgs.	= 1	=		_	6201.
		7761.	=	3051.		Ξ	_	
Cerium nitrate		— .	120 <i>l</i> .	16 <i>l</i> .	_	_	-	
Chloral hyd		- 300 <i>l</i> .	_	2181.		291.		_
Climate and the desired to the state of the			=	6111.		291.		=
Coumarin		1,0051.	_ •		_	_		_
Oreosote and salts		2091.	_	_		_	- '	468 <i>l</i> . 2,717 <i>l</i> .
			7151.	857.	1,5001.			2,1116.
Glycerin		=	1201.	4,8991.	_	_	_	_
Guaiacol carb		2 cs., 190l.		_	_	80 <i>l</i> .	_	_
		1.0741.	291 <i>l</i> . 157 <i>l</i> .	_	_	_		804 <i>l</i> .
Timber out to		9201.	401.		=			-
		3200.	_	_	_	421.		
Lithia, carb		_	· —		_	_	~-	2151.
	•••	8961.	2807.	201.	_		_	10 cs., 533l.
3 C-11		- 6501.		5111.	_	_	_	100 brls.
Musk, artificial		_	-	401.	<u>-</u>		_	
	•••		_	_	_	2,989%		695 <i>l</i> . 1,848 <i>l</i> .
(Comp 14 - a - 4 - 7	•••	_	1.0001.	7371.	701.	2,905%		_
Paraformaldehyde		_	185 <i>l</i> .		_	_	_	1,6201.
Paraldehyde		_	3331.		0.4007	1 0457	-	_
Perfumery, synthetic (not of Pharmaceutical chemicals	described)	271.	2,6781.	50.	2,4801-	4,0451.		4681.
Phenacetin		_	2321.	2801.	67l.	671.	-	_
Phenazone		1,6521.	109 <i>l</i> .	_	_	_	_	
Dhanalah thatai	•••	50 <i>l</i> .	1501.		=		_	
Photographic chemicals		3621.	1,0401.	_	=	=	_	-
Piperazine		221.			_	_	. —	
	•••	_	178l.	59l. 23 drms., 102l.	12 drms.		4 pkgs., 2,114l.	2911.
		=	91 pkgs., 671.		— arms.	60 pkgs.	2,1141.	_
,, cyanide		_	128!.	_	_	-	_	c =1
	•••	_	5 cs., 100l. 275l.	_		_		6 pkgs.
	•••	<u> </u>	5911.	7901.			1561.	_
Pyrazolone	•••	504 <i>l</i> .	_	_	-	_	_	
Pyrogallic acid	•••		F 000	. —	-	5,192 oz.	-	2,2051.
Quinine and salts	•••	500 oz.	5,000 oz	_	-	2,000 <i>l</i> .	_	_
Resorcin	•••	131 <i>l</i> .	_	_	_		_	
Salol	•••	168 <i>l</i> .	530 <i>l</i> .	= = = = = = = = = = = = = = = = = = = =	_	_	_	801.
		=	123 <i>l</i> . 8,063 <i>l</i> .	_	_			_
", proteinate	••• •••	_	_	_	_	751.	_	_
,, salts	•••	_	2301.	_	_		_	
	•••	121.	111.		_			_
,, salicylate	••• •••	267 cwt., 34l.	2731.	15 cwt.	=	_		40 cwt.
Sulphonal			1461.	-	_	_	-	2001.
Tannic acid	•••	_		_			_	140%. 400%.
Townings 1		3 drms.	_	1621.	=	- =	=	4001.
Thorium nitrate	•••	_	12,290%.	1,6501.	_	-	- 4	
sulphate	•••	7001.	3,4231.	-				2,3241.
Zinc valerianate		3471.	412 <i>l</i> . 165 <i>l</i> .	/ =			<u>-</u>	4,5241.
			1000	1	+			U

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. bulk quantities.

42 Cannon Street, E.C. 4, July 28

WITH the premier holiday month of the year at hand less interest will now be taken in the markets, and not until September is any revival of activity looked for. At the same time the better tone so far as regards prices of Mincing Lane produce is well maintained, this particularly applying to seeds and spices. Canary seed has continued in demand and is dearer. Cumin is considerably dearer. Fenugreek is firm but quieter; coriander is higher. Poor prospects of new Morocco crops on account of small sowings and drought are said to be responsible for the advance in prices. Cloves are dearer on account of speculation alone; peppers are easier. Among drugs, ergot is dearer; agar-agar is firm and tending higher. Menthol shows a slight reaction, demand having fallen off. Calumba is selling at a sacrifice, and higher rates have been paid for Mexican sarsaparilla. Turmeric to import is much higher than present spot prices, and cheap parcels are more difficult to find. Albumen is dearer, and higher prices have been paid for Japanese vegetable wax. Shellac and turpentine are

	Barium chloride	
Albumen Canary seed Clove oil Cloves (Zan.) Coriander seed Cumin seed Lithange Red-lead Sarsaparilla (Mex.) Wax, veget. (Jp.) White-lead	p. Benzonaphthol Lead acetate	Acetic acid Formaldehyde Lithopone Potash carbonate Potash caustic Shellao Soda hypo. Terpin hydrate Turpentine

Cablegram

NEW YORK, July 26.—Business is quiet. Peppermint oil in tins has declined to \$2.00 per lb. Cartagena ipecacuanha is lower at \$1.90 per lb. Serpentary root has been reduced to 78c. and cascara sagrada is cheaper at 10c. Phenacetin has declined to \$1.40, formaldehyde to 13c., and hexamine to 85c. per lb. Acetanilide is higher at 33c. per lb.

Crude Drugs, etc.

AGAR-AGAR is firm and dearer, a fair-sized quantity of No. 1 Kobe having been disposed of at 2s. 6d. per lb.; sales to arrive include August-September shipment at 2s. $5\frac{1}{2}d$. per lb. c.i.f.

ALBUMEN is dearer, prime Chinese hen having been sold on the spot at from 2s. 11d. to 3s. per lb., and August-October shipment at 2s. 9d. per lb. c.i.f.

ALOES.—There were no exports from the Union of South Africa during March 1921. For the three months ended March exports were 15,978 lb. (200*l*.), against 171,131 lb. (3,082*l*.) in 1920. Cape aloes in London have been selling recently on the basis of 50s. per cwt. for

Antimony.—Demand is dull, but the tone is steady at late rates for English regulus. There is not much foreign refined offering, while limits of Chinese shippers have been raised on account of the much higher rate of exchange. These are well above the terms at which parcels to arrive could be secured, at around 24l. per ton c.i.f. Crude for shipment is worth about 17l. c.i.f., the nominal spot value being about 18l.

BUCHU.—The exports from the Union of South Africa during March 1921 amounted to 10,310 lb. (1,939l.),

against 17,713 lb. (7,201).) in March 1920. For the three nonths ending March 1921 the exports were 22,762 lb. (4,107), against 36,537 lb. (14,985), for the corresponding quarter of 1920.

CALUMBA.—In view of the enormous stocks, calumba continues to sell much below cost of import, sorts realising 10s. to 15s. per cwt. and wormy down to 5s. per cwt.

CAMPHOR (REFINED) is quiet, spot sellers of Japanese 2½-lb. slabs asking 4s. 3d. per lb. and Chinese 4s. 1d. Japanese for August-September shipment is quoted at 3s $7\frac{1}{2}d$., and Chinese at 3s. 6d. c.i.f.

CASCARA SAGRADA. -Our New York cable intimates a reduction to 10 cents per lb. (about 65s. per cwt. at the present rate of exchange). The spot value is about 85s. per cwt., with the usual premium for old bark.

CASTOR OIL.—French medicinal in barrels is quoted at 66*l*. per ton, and in cases of 4 × 20 kilo tins at 71*l*. per tor ex wharf London. A recent advice from Marseilles indicates an all-round advance of 2l. per ton, and further firmness is looked for.

CHAMOMILES.—New Belgian crop for possible delivery within a fortnight are selling at 160s. per cwt. c.i.f.

.Cocoa-BUTTER.—Prime English is quoted at 2s. per lb. ex works in not less than 1-ton lots.

COD-LIVER OIL.—Our Bergen correspondent writes on July 18 that the market is still quiet, with prices nominal at from 95s. to 100s. per barrel c.i.f. In London agents offer at about 90s. c.i.f. for finest new Lofoten oil.

Egg Products are firm and in better demand, with sales of prime Chinese liquid hen yolk at 130s. to 135s. per cwt., and for August-October shipment 90s. per cwt. c.i.t. has been paid. Dried yolk is 4d. and sprayed whole egg 9d.; Native dried whole is $4\frac{1}{2}d$.—all spot.

Ergor.—With higher prices cabled from Spain, including one of 6s. 9d. c.i.f., spot holders have been selling at

from 6s. 3d. to 6s. 6d. to 6s. 9d., and now ask 7s. per lb.; there appears to be little available on the spot.

FARINA.—Dull, the spot price of No. 1 Japanese being rominal, and for August-September shipment 21s. per cwt. c.i.f. is quoted. Dutch on the spot is 18s. 6d. per cwt., and 18s. f.o.b.

LINSTEED OIL.—The trade outlet has been quite good for some time past, and as offers are being made rather sparingly the undertone is steady at the recent considerable advance. The demand for raw material Laving been more insistent, this has precipitated a further sharp rise in prices to comparatively high figures. Near-at-hand seed is rather scarce, but in another week or two considerable quantities should come in, and thus enable crushers to work on a much freer scale. The export demand for oil is still active, and dealers are cautious. London closes at 39l. 5s. naked and Hull at 37l. 10s.

Magnesium.—The tendency is rather easier. Dealers ask 5s. 3d. to 5s. 6d. per lb., but offers of ingots are reported from the Continent at 3s. 3d. to 3s. 6d. c.if., while powder could be had at about 3s. 9d. per lb. English makers now quote 6s. for their metal.

MENTHOL is quiet, the demand having fallen off. Kobayashi-Suzuki on the spot is quoted at 20s. 6d. to 21s. per lb., and sellers of August-September shipment ask

18s. 6d. c.i.f.

Mercury.—There is no special feature, the current demand being insufficient to make any impression on the market, which is dull and far from steady at 11. per bottle, second-hands quoting 101. 17s. Large supplies are available, as pointed out in our editorial pages.

Orris is slow of sale, with sellers of fair Florentine scrts asking 56s. per cwt. on the spot.

QUILLAIA.—Spot value of whole bark is about 35s. per cwt.

Sarsaparilla.—Mexican, which has been changing hands on the spot at from 1s. 6d. to 1s. 8d. per lb., has now advanced to 2s. 3d., with more demand. Honduras is quoted at 2s. 3d. also.

SENEGA.—Although lower prices have been talked of for new crop in New York and primary sources, business does not seem to have materialised, sellers being unwilling to commit themselves before they actually have the goods on hand. Reports indicate that the crop will not be large this year. Spot remains at 3s. 4d., and we hear of a

forward offer at 2s. 11d. c.i.f.

SHELLAC has been quiet throughout, the value of usual standard TN Orange quality being from 275s. to 280s. per cwt. Fine lemon is 420s., fine second orange 380s., RLI 350s., AC Garnet 290s., and IG 220s. Futures are lower, the sales including August at 235s. to 245s., and October at 220s. to 230s. To arrive, TN for July-August shipment has been sold at 225s. c.i.f. and sellers.

Turmeric.—There is still a fair stock on the spot, but, as the c.i.f. price to import Madras finger is 35s. per

cwt., owners seem inclined to wait, and, as further sales at current rates involve a loss, there is now a difficulty in finding cheap parcels. Probably 20s. would have to be paid for fair Madras finger.

TURPENTINE.—The warehouse stocks here are badly in need of being replenished, the total of American spirit having dwindled to a mere 3,400 barrels, while a few hundred barrels of French spirit are available, and practi-cally no Spanish. It is curious that imports are so slow in coming forward, although it may be surmised that fresh importations have been hindered by the severe break in the dollar rate of sterling, which means, of course, correspondingly higher c.i.f. costs. The demand of late has been much more restricted, the spot price closing at 90s. per cwt., a decline of 10s. on the week.

Wax, Bees', is steady, with Jamaica offering at 7l. per cwt. East African has been selling in quantity at from 72s. 6d. to 77s. 6d. per cwt. as to quality. Bleached Calcutta is 7l. to 7l. 10s. and yellow 65s. per cwt.

Wax, Carnauba, is quiet, with fatty grey offering at 105s. and chalky at 100s. per cwt. on the spot.
Wax, Vegetable.—Japanese is dearer, sellers quoting 100s. per cwt. on the spot, and for August-September shipment 90s. c.i.f. is asked.

Seeds and Spices

Arrowroor is steady, good manufacturing St. Vincent offering at from $3\frac{1}{4}d$. to $3\frac{3}{4}d$., and common $2\frac{3}{4}d$. to 3d.

CANARY SEED has continued in demand and is dearer, 95s. per quarter having been paid for ordinary and 110s. for good Morocco. It is reported that all seed crops in Morocco will be very short this season, owing to small sowings, the natives having been encouraged to produce grain instead of seeds.

CASSIA LIGNEA is in slow demand, but prices are regarded as lower than the position warrants. Whole selected is offered on the spot at 35s. and broken at

22s. 6d. to 25s. per cwt.

CHILLIES continue scarce and dear, ordinary Zanzibar quality selling at 145s. and fair at 150s. per cwt.

CINNAMON continues dull and unchanged, Ceylon firsts offering at 1s. 2d., seconds 1s. 1d., thirds 1s., fourths 10d.,

and chips $3\frac{1}{2}d$. per lb.

CLOVES .- Zanzibar are strong and dearer, owing to continued speculation. Spot sales have been made at from $11\frac{3}{4}d$. to 1s. $0\frac{3}{4}d$. per lb.; for July-August shipment $11\frac{1}{4}d$. to 1s. c.i.f. has been paid, and August-September has been done at 1s. c.i.f.

CORIANDER SEED is dearer, at 25s. per cwt. for sound

Morocco and 19s. to 20s. for slightly wormy.

CUMIN SEED is considerably dearer, at 45s. per cwt. for 1919 crop and 50s. for good 1920 crop. There have been no offers of 1921 crop yet.

FENUGREEK SEED is firm, but quieter, with sellers at

15s. per cwt. on the spot.

MACE is less active, but prices are well sustained, fair Singapore offering at 1s. 2d. to 1s. 3d., ordinary at 1s. 1d., and pickings 9d. to 10d.

NUTMEGS.—Larger sizes have been in fair inquiry, but

small are neglected.

PEPPER is steady, with sales of fair black Singapore on the spot at 43d. per lb.; to arrive, July-September and August-October shipments have been sold at $4\frac{1}{2}d$. to $4\frac{7}{16}d$. c.i.f. Lampong is unaltered at 5d., Tellicherry is 5d., and Aleppy is $4\frac{1}{2}d$. spot. White pepper has been sold at $9\frac{3}{4}d$. for fair Muntok; July-September and August-October shipment have been done at $9\frac{3}{8}d$. to $9\frac{1}{4}d$. c.i.f.; white Singapore is $9\frac{1}{4}d$. spot, and for August-October shipment 9d. c.i.f. is the value.

PIMENTO is steady, with spot sellers at $2\frac{5}{8}d$. per lb., and August-October shipment at 91/4d. c.i.f.

Essential Oils

Business has fallen off considerably this week, but it speaks well for the present position that there does not appear to be any apparent fall in values, with the one exception, that lack of orders has caused Japanese dementholised mint oil to drop about a penny on the spot, but the forward position is higher. Reports in regard to American peppermint, of which the new crop is now being distilled, indicate that the outturn is well up to anticipations, but that the recent prices are too low to be interesting to the distiller, and in one direction recent quotations cannot be repeated; at least 1s. per lb. more is asked. Clove oil has also advanced a further 9d. per lb. Star anise is, if anything, a shade firmer on the spot. Lemon is in fair spot demand, but as stocks are heavy prices continue easy.

ANISE (STAR).—Beyond the spot price being a shade firmer-2s. 3d. now being asked-no fresh developments

are reported.

BERGAMOT may be considered a little firmer, and, being a rather sensitive market, a little business soon affects the price; it is cheaper on the spot than to arrive; the general price mentioned for 37 to 39 per cent. l.a., c.i.f., is about 23s.

CAMPHOR (WHITE ESSENTIAL).—A fair business is pass-

ing without any change in price to record.

Cassia Oil (80 to 85 per cent.) still remains at $3s. 10\frac{1}{2}d.$ spot and 3s. 7d. c.i.f. There is slightly more inquiry.

CITRONELLA.—Rather more spot business is doing in half-ton drums at 1s. $3\frac{1}{4}d$. per lb. for Ceylon.

CLOVE.—Further increases in the price of fruit have caused distillers to advance prices another 1s. per lb., and

8s. to 8s. 3d. is now asked.

Lemon.—Still in good demand, but apparently there are heavy stocks, which holders are willing to sell at last prices; the cost position really warrants an increase, but competition is severe. A Palermo report, dated July 21, states that "the market is entirely inactive, as buyers abroad have so far kept off since speculation took the upper hand over here; however, holders are not in any need of ready money, so prices are unchanged, but we slightly alter quotations when and as the lira depreciates." The c.i.f. price is from 3s. 5d. to 3s. 7d. per lb., and spot is 3s. 3d. to 3s. 6d. per lb.

LIME.—Still in active demand at prices between 2s. 9d. and 2s. 10½d. per lb. for fair West Indian distilled; hand

pressed is nominally 20s. per lb.

Mint.—Japanese dementholised is firmer for forward delivery, with sales of Kobayashi-Suzuki for August-September shipment at from 3s. $10\frac{1}{2}d.$ to 4s. per lb. c.i.f., sellers quoting 4s. $1\frac{1}{2}d.$; on the spot from 4s. $1\frac{1}{2}d.$ to 4s. 3d. has been paid.

Orange.—Sicilian sweet can be had on the spot at 13s.

and 13s. 3d. per lb. c.i.f.

Peppermint.—Pure "Wayne County" American still remains comparatively scarce on the spot, and about 13s. to 13s. 6d. is asked; the forward position appears much stronger than our last report; in certain directions 12s. 6d. per lb. c.i.f. is now asked for immediate shipment. While other importers are willing to cable out orders at previously mentioned prices, they do not appear sanguine about getting them accepted. Cabled prices, however, show irregularity; for autumn shipment slightly less than 12s. 6d. c.i.f. would be accepted.

Pharmaceutical Chemicals

THE market still remains distinctly dull, and there are few inquiries. Most people seem to have decided to take their holidays earlier than usual, holding the view that an improvement will possibly take place in September. The few changes to record this week are all on the downward grade, and include easier rates for acetanilide, benzonaphthol, sodium bromide, phenazone, phenolphthalein, sodium diethylbarbiturate, and terpin hydrate. Chloral hydrate, and phenacetin are steadier.

ACETANILIDE crystals and powder show a weak market, and values are now round about 1s. 4d. to 1s. 5d. per lb.;

demand is still slack.

ASPIRIN in ordinary makes is now quoted at about 2s. 10d. to 3s., and slightly higher for best brands.

ATROPINE SULPHATE is quoted unchanged at 21s. per oz. on a dull market.

BARBITONE continues weak at from 14s. 6d. to 15s. per 1b.

Benzaldehyde 0.3 is being generally quoted at about 3s. 9d. per lb.

BENZOIC ACID continues unchanged and quiet at 2s. 6d.

Benzonaphthol.—Fair current values are from 7s. to 7s. 3d. per lb., being cheaper than our previous quotations.

BETANAPHTHOL.—Resublimed continues very weak, with practically no demand for stocks offering; current quota-

tions are round about 3s. 3d. per lb.

Bromides.—Only a few small sales have been made, and values are showing signs of weakening. Current values are: Potassium, crystals and granular, 8d. to 9d.; ammonium is easy at 1s. per lb.; and sodium is now freely offered at 10d. to 11d. per lb., some lots even cheaper

BUTYL CHLORAL HYDRATE continues steady at 11s. per lb. net.

CAFFEINE is in fair demand at about 21s. to 21s. 6d. per lb. for imported.

CALCIUM LACTATE continues weak and dull at 2s. to 3d. per lb.

CHLORAL HYDRATE is much steadier and in fair demand at 4s. $9\bar{d}$. to 5s. per lb.—the latter price for small parcels.

CITRIC ACID is still in slack demand, with prices easy at about 2s. 4d. per lb., less 5 per cent. for B.P. CREAM OF TARTAR is in steady demand, and as supplies are good and arrivals freely taking place, lower offers are

obtainable in some quarters. CREOSOTE.—B.P. is steadily maintained on a dull market at 4s. 6d. to 4s. 9d. per lb.

CREOSOTE CARBONATE is still dull, with values easy at 15s. per lb.

Guatacol Carbonate is a little steadier this week at 14s. 3d. to 14s. 6d. per lb., but the market is still quiet. Hexamine is unchanged at 4s. 6d. to 4s. 9d. per lb.;

business is still slow.

Hydroquinone continues weak; current offers are being

made at last week's figures of 4s. 9d. to 5s. per lb. METHYL SALICYLATE continues quiet, with values easy

at 2s. 3d. to 2s. 5d. per lb. METHYL SULPHONAL is only moving very slowly; prices are maintained at 17s. 6d. per lb. for U.S.P. and 19s. 6d.

PARAFORMALDEHYDE continues dull, with values easy at 3s. 9d. per lb.

Paraldehyde remains neglected at 2s. per lb.

PHENACETIN is steadier this week, but the market is still slack; 5s. 9d. to 6s. is generally asked.

PHENAZONE is a shade weaker, although still quoted at

last week's figure of 8s. per lb. PHENOLPHTHALEIN.—Continental stuff is now offering

as low as 4s. per lb., which has put the Swiss and American makes off the market. POTASSIUM PERMANGANATE is unchanged in values at 1s. 2d. to 1s. 6d. per lb. for B.P., with a fair amount

of business still being done.

Potassium Sulphoguaiacolate continues to be quoted at varying figures from 8s. up to 9s. per lb.

RESORCIN continues quiet and rather weak at 8s. to 8s. 3d. per lb.

Salicylates.—Salicylic acid, B.P., is about the same at 1s. 2d. to 1s. 5d. per 1b. Sodium salicylate remains steady at 2s. 2d. per 1b., with up to 2s. $4\frac{1}{2}d$. quoted for finest brands of Continental make. Business is still slow. Sator continues neglected, with values easy at about 2s. 2d. and 2s.

2s. 9d. per lb.

SODIUM BENZOATE remains dull, with values weak at 2s. 3d. per lb.

SODIUM DIETHYLBARBITURATE, B.P., has eased off, and is now freely offering at 22\$. per lb., but the demand is

SULPHONAL continues unchanged at 19s. 6d. to 20s. per

lb.: market is inactive.

TANNIC ACID.—Leviss is easy on a dull market at 4s. per lb.

TARTARIC ACID remains at from 1s. 5d. to 1s. 6d. per lb. for foreign crystals or powder. Lower offers of imported are being made, but in some instances the analysis is not altogether satisfactory, and buyers would be well advised to assure themselves of the quality before purchasing.

TERPIN HYDRATE is now down to 3s. 6d. per lb., and

is still a dull and unsteady market.

THYMOL is still lifeless, and values are nominal at 24s. per lb.

Heavy Chemicals

London, July 27.

THE market continues to drag, there being no signs of any improvement either in the amount of business being done or the general tone, which remains unsteady. Limited inquiry is being received, but actual business is still unsatisfactory. Acetic acid has eased off, and Continental and home makers of hypo. soda are quoting lower

ACETIC ACID has fallen off in demand, and the limited stocks now offering are quoted at slightly lower figures; 80 per cent. technical, 41l., and 98 per cent. glacial, 51l. to 52l. per ton.

ACETONE.—British Government specification continues

to drag at about 85*l*. per ton.
Alum is still neglected, with Continental stuff continuing to undercut home prices of about 17l. 10s. per ton f.o.b.

ARSENIC.—Demand is dull, and the market for white Cornish powder is called about 44l. to 45l. delivered London or Liverpool. Continental is offering at 44l. to 43l. c.i.f. to arrive.

BARIUM CHLORIDE (98 to 100 per cent.) is being weakened by keen offers from the Continent at about

141. 10s.; spot lots at 17l. are neglected.

Barytes remains steady, with only a small movement at 6l. per ton for grey up to 10l. for best white material.

BLANC FIXE is quiet, with values steadily maintained at 23l. per ton.

COPPER SULPHATE. -- A fair home demand is reported at about 301. per ton, and there are a few Continental inquiries. Some makers ask 311. and upward for casks f.o.b. Liverpool, but business prospects are anything but bright. Italy has apparently yet a lot of surplus material waiting for disposal, and the recent reports of financial difficulties there in that industry have upset the market somewhat.

COPPERAS.—Green crystals are nominal on a dead market at 5l. 15s. per ton.

FORMALDEHYDE is now quoted as low as 921. 10s. per ton, but there seems to be no demand.

LEAD ACETATE has eased off on a neglected market, and is now quoted at 48l. for brown broken and 52l. for white crystals.

LEAD Products.—As was surmised in our previous issue, prices for red lead and litharge were late last week put up 1l. per ton, and range from 38l. 10s. to 41l. f.o.b.; put up 1l. per ton, and range from 38l. 10s. to 41l. f.o.b.; the same rates applying to the home trade, according to quantity. White lead was also advanced to the extent of 30s. per ton, making the product in oil for export 51l. f.o.b. The demand has been maintained on a fairly good scale, some of the makers now finding some difficulty to guarantee deliveries required in the near future. The output having been kept down for some time, there is very little stock available.

LIME ACETATE is offered from the Continent at very

low figures, but there is no demand.

LITHOPONE is quoted cheaper this week, and the demand is not so good; 30 per cent. Continental red seal about 29l., light-resisting about 32l. 10s., and green seal at about 35l. per ton.

NICKEL SULPHATE is unchanged, with the market on the dull side; (export) single salts, 57l.; double salts, 59l.; (home trade) single salts, 58l.; double salts, 60l. per ton,

less 2½ per cent. delivered. Business still slack.

OXALIC ACID is still dull and values have further eased

off, offering now at 9d. to $9\frac{1}{2}d$. per lb.

POTASH CAUSTIC is much cheaper this week, both for parcels on the spot and makers' prices; spot lots offer at 34. per ton for 38 to 92 per cent., makers quoting 31. per ton; Continental offers are keen.

POTASSIUM BICHROMATE is offering on the spot at 9d. to 9½d. per lb.; makers' price is slightly more. Demand is still slack and values are not firm.

POTASSIUM CARBONATE (90 to 92 per cent.) is cheaper this

week at 321. per ton; demand still poor.

Potassium Chlorate is still offered by makers and dealers at 5d. per lb. for crystals and powder, but there is very little demand.

POTASSIUM PERMANGANATE continues to be called for, importers doing a fair business at about 1s. 2d. per lb.

for commercial quality.

POTASSIUM PRUSSIATE continues to be offered by makers at 1s. 2jd. and 2s. 1d. per lb. for yellow and rcd respectively, but the demand is poor; spot lots are slightly higher in dealers' hands.

SALTCAKE is offering at very low figures from the Continent, but there is no demand; holders of stocks here

are unable to obtain bids.

Soda Ash (58 per cent. light alkali) continues in limited demand only; makers' prices are unchanged at 81. 10s. for home trade, and about 101. 5s. per ton for export; parcels on the spot are quoted at about 91. 10s. to 101. 10s. per ton, but sales are difficult.

SODA CRYSTALS continue at the previous figure of 71. per ton in bags ex works or station; spot lots, same figure

ex store.

SODIUM BICARBONATE continues to hold firm, with a good demand still coming through; limited supplies on the spot are firm at 121.10s. per ton for refined material; makers are still quoting 131. per ton for export. Supplies should

soon improve.

SODIUM CAUSTIC continues dull, with a few lots offering on the spot at about 22l. 10s. to 23l. per ton for 70 to 72 per cent. f.o.b.; makers are quoting (for home trade only) at 26l. 15s. per ton for 76 to 77 per cent. in large iron drums, and 24l. 10s. for 70 to 72 per cent. f.o.r.

SODIUM CHLORATE is quoted unchanged and dull at 4d.

per lb. by makers and holders of spot lots.

SODIUM CYANIDE is unchanged at 11d. to 11½d. per lb.;

demand is still slack.

SODIUM HYPOSULPHITE is cheaper this week with large stocks offering, but the demand is not so good. Pea crystals in 1-cwt. kegs are about 23t. for imported; German stuff even lower; commercial is uncalled for at 16l. per ton. Home makers are now quoting 20l. per ton for photographic and 16l. for commercial for home trade only.

SODIUM NITRATE continues quiet at 181. 10s. for 96 per

cent. f.o.r. Liverpool.

SODIUM PRUSSIATE has been inquired for in limited quantities, with makers' prices unchanged at 7d. per lb.; it is difficult to obtain spot lots at this figure; forward delivery from Continent is slightly less.

SODIUM SULPHIDE from makers continues at 25l. per ton for 60 to 65 per sent. concentrated in casks; spot parcels of 60 to 62 per cent. solid are weak at 24l. per ton;

demand is very poor.

SODIUM SULPHITE.—Anhydrous is still nominal at 28l. per ton; no demand. Crystals of commercial quality are quoted by makers at 12l. 10s. per ton for home trade only.

TIN CRYSTALS is a slack market, with values unchanged

at 1s. 5d. per lb.

ZINC PRODUCTS.—There has been a moderate demand for zinc oxide. Terms vary a good deal, some makers quoting rather low figures. Quotations range as follows: White seal, 99.9 per cent., 42l. 10s. to 45l.; green seal, 99.8 per cent., 40l. to 42l.; and red seal, 99.7 per cent., 38l. to 38l. 10s. per ton. Zinc ashes are worth 7l. for 70 per cent. Zinc dust continues neglected, with values almost nominal at 55l. per ton for 88 to 92 per cent.; Australian and English, 92 to 94 per cent., about 53l.

COAL-TAR PRODUCTS, ETC.—The market continues very much on the quiet side, with no change of any material importance to record. Values are being maintained at last week's level. Actual business is probably being done at figures slightly below those quoted Aniline oil and salt continue almost neglected, with values easy at 1s. 2½d. and 1s. 4d. per lb. respectively. Betanaphthol is still quiet and weak at 1s. 9d. per lb. Benzol continues in

limited demand, with values unchanged at 2s. 6d. for pure and 2s. 5d. for 90 per cent. per gallon. Carbolic-acid crystals are still the weak feature of the market; demand has not improved for the good stocks offering, and values are easy. Creosote oil is quite steady and moving in small lots at 9d. per gallon. Cresylic acid is still quoted at 18. 10d. for crude and 2s. 6d. for pale straw, but orders could no doubt be placed for slightly lower rates. Naphthaline is quoted unchanged for all grades: crude, 5l. to 9l.; powder, 22l.; crystals, 22l.; fakes, 23l.; candles and tablets, 40l. per ton. Very little business is being done.

Hamburg Drug and Chemical Markets

July 23. The fine-chemical market has been quiet, with few inquiries and a small business. Export trading in heavy chemicals, however, shows an improvement, particularly to "neutral" countries. The following prices are for original packages, net cash against documents f.o.b. Hamburg, packages

BORAX is in fair demand, and small supplies caused a steady market at m.9.50 per kilo. for crystals and m.10 for

BORIC ACID is firm, with supplies scarce, at m.9.50 crystals and at m.10 for powder.

CANTHARIDES.—Supplies are small at m.275 per kilo.

COLOHICUM SEEDS are quiet at m.750 per kilo.

COLCHICUM SEEDS are quiet at m.750 per kilo.
GENTIAN has been in more inquiry at m.12 per kilo.
HYDRASTIS is lower at m.575 per kilo.
IODINE PRODUCTS.—Makers have twice advanced their prices, which caused an improvement in business. We quote cheaper for iodide of potash, m.455 per kilo.; sodium iodide, m.515 per kilo. Resublimed iodine is m.555; and iodoform, m.680 per kilo.
IPECACUANHA:—Rio is m.220 per kilo., and broken bulk is m.230 per kilo.

m.230 per kilo. JUNIPER BERRIES are in brisk demand at m.5.75 for prime quality.

JUNIPER OIL is reduced to m.190 per kilo.

Liquorice Juice.—In spite of the summer, round lots were dealt with, and the tendency is firm at m.32 per kilo. spot and at m.30 to arrive.

and at m.50 to arrive.

Mastic is very scarce at m.130 per kilo.

Mint Oil (Japanese).—Owing to the firm tendency of Far Eastern products, a rise may be expected; we quote m.140 per kilo. in original cases.

Nux Vomica is offering at m.22 per kilo.

Potassium Bromide.—In consequence of heavy stocks abroad, no new inquiries were forthcoming. We quote crystals at m.17 per kilo. and granular at m.16.

Potassium Chlorate.—Large sales have been made at m.8.50 per kilo.

m.8.50 per kilo.

POTASSIUM SULPHOGUAIACOLATE is cheap at m.180 per kilo. RESORGIN is selling at m.225.
SALICYLIC ACID.—Only retail lots are solling at m.75 per

kilo.

SALOL is m.60, and for export m.70.
SEBADILLA SEED has advanced to m.15 per kilo.
SENEGA is offering at m.120 in original packages; broken

bulk is m.130. SILVER NITRATE. - Following the rate of exchange, the price

Silver Nitrate.—Following the rate of exchange, the price advanced to m.925 per kilo.

SODIUM BROMDE is in request for export at m.19 per kilo.

SODIUM SALICYLATE continues scarce at m.60 per kilo.

SPERMACETI.—Prime Russian has advanced to m.28 per

STRAMONIUM LEAVES.—No inquiries are forthcoming from abroad; we quote m.19.

TAMARINDS.—Prime black Calcutta are in request at m.550

per kilo.

per kilo.

Tartario Acid is in regular and good demand with increasing sale. The article deserves attention at m.36 for powder and granular, and at m.37 per kilo. for crystals.

VALERIAN.—Regular orders reduced the stocks, and the price is slightly firmer at m.12 per kilo. whole, and at m.14 for cut.

M.14 for cut.

Vanillin.—Makers raised the price, and we quote at the same level at m.900 per kilo.

VERONAL is m.325 per kilo.

WAX (JAPANESE) is in good request at m.31 per kilo.

WORMSEED is in brisk demand, and m.160 per kilo is willingly paid.

Madagascar Cloves

PRACTICALLY all the cloves exported from Madagascar are produced on the island of Ste. Marie, off its north-east coast. Perhaps from 10 to 15 tons is produced on the mainland, Madagascar proper. The estimated production for Ste. Marie in the 1919-20 season (October to February) was 423 metric tons, compared with

151 tons for the 1918-19 season. The estimated production of cloves for the 1920-21 season was 40 metric tons, though in December 1920, 87 tons was exported. The total exports of cloves in the calendar year 1919 amounted to 499 tons, against 143 tons in 1918 and 70 tons in 1917. Practically all these exports went to France.

Eucalyptus Oil in Victoria

Because of the low prices most of the distillers have stopped distilling, says "The Chemist and Druggist of Australasia." In the Maryborough district the Association is dormant, and recently only one firm was at work. Nothing has been heard lately of the proposed co-operative distributing company. Separate associations of eucalyptus-oil distillers exist in several districts, round Dunolly, Donald, Neilborough (W. McWalter, secretary), Inglewood and Wedderburn, as well as Maryborough. In the Neilborough district about half the members distil lower-grade oils from ironbark, stringy bark, and box on Crown lands, and most of these have closed down. The others distil from E. polybractea. The total exports for the five years to 19.7 averaged 240 tons, the greater part from Victoria; most of the balance from New South Wales, the exports of the other States being negligible.

French Orange Flowers

The collection of orange flowers, which begins in the month of May and lasts on an average six weeks, was concluded within a shorter time during the present year. It is reported that the fine flowers, which form the principal yield in the Golfe-Jouan district, amount to less than a tenth of the quantity harvested during the preceding years, which will entail an immense loss to Golfe-Jouan-Vallauris, which alone used to supply more orange flowers than the remainder of the department as a whole. The cultivators of orange flowers in the department of the Alpes Maritimes were in the habit of supplying their harvest to a syndicate that undertook the distillation of the essential oil, which was then sold to the perfumers. This year the flowers are to be sold directly to the distillers and manufacturers of perfumes, which has had the effect of causing a great fall in the price of the flowers. The cultivators are in a quandary, and many are considering the advisability of throwing the flowers away.

German Dyes and Chemicals

The fact that several of the most important German dyeworks are situated in the occupied territories has necessitated an increase of 10 per cent. on all prices for dyes and pharmaceutical products ruling on the German market. This industry, it is stated in the report on the chemical industry for the month of May issued by the German Government, has been particularly severely hit by the "sanctions," since the Rhineland Commission, in addition to levying the dutics applicable on all exports from the occupied into non-occupied parts of Germany, has also enforced the special export levy on dyes and pharmaceutical products in addition to the Customs duties; these additional export dues being the same as those levied by the German Government on all exports of these classes of goods on April 8. The same publication contains the statement that the foreign trade of the German coal-tar dye-works has been seriously damaged by the fact that the deliveries of those Peace Treaty are being indiscriminately thrown on the market at ridiculously low prices.

German Pharmaceutical Industry

The following report on the position of the pharmaceutical chemical industry has been drawn up by the council of the Association for the Protection of the Interests of the Chemical Industry of Germany, a body which comprises all the leading German manufacturers of chemical products: The position of the drug market is extremely unsatisfactory. The ordinary course of business is disturbed by the fact that large stocks are held by persons not belonging to the trade. For a long time the home trade was practically at a standstill, and is only now beginning gradually to recover. The position of the export trade is even worse. In this case a very serious factor has to be taken into account—viz., the fact that in the Allied countries not only German patents but also German trade-marks have been either voided or acquired by foreign competitors in consequence of compulsory liquidation. For instance, the Farbenfabriken formerly Friedr. Bayer & Co. are even prevented from using their own name in the United States. The name "Bayer" and the "Bayer Cross," together with the American agency of the firm of Bayer, were sold by liquidation to an American competitive firm. In other ways, too, the competition of foreign industrial firms is making itself increasingly felt in the fight for markets.



Mr. Peck's Conference Address

SIR,—Mr. Peck in his presidential address to the British Pharmaceutical Conference (*U. & D.*, June 18, p. 46) seems to have trodden heavily on the corns of the medical profession. His schemes for the advancement of pharmacy are unlikely to meet with anything but hostility from the doctors, to judge from what the "British Medical Journal" stated in a recent issue:

Mr. Peck does not lack courage in the claims he makes for his calling. We agree as to the desirability of raising the standard of preliminary education, and agree also as to the need of pharmaceutical research, although it may be difficult to define the boundaries between it and pharmacological research. We are less clear about the advisability of training pharmacists in biochemistry, bacteriology, and microscopy, with a view to their taking charge of the clinical laboratories attached to primary and secondary centres described in the Dawson Report. This is what we think Mr. Peck means, and we are aware that the possibility of some such plan was recognised in the report, but unless we are very much mistaken it was intended to apply to the primary centres only. We are by no means satisfied that the plan would work well even in the primary centres and it would take a good deal to convince us that it is applicable to the secondary. We are inclined to think—and it is in this sense we read the Dawson Report—that the laboratories of the secondary centres must be in charge of a fully equipped medical director, who would have the help of a suitable laboratory assistant, for whom, we think, the training in pharmacy, biochemistry, and bacteriology suggested by Mr. Peck would be superfluous.

A trade, calling, or profession cannot hope to advance at the expense of any other section of the community but from its own inherent usefulness. The phenomenal advance in the position of the doctor during the past century has been due to his development of public health effort in the prevention of disease. At present the sole rôle of the pharmacist in relation to preventive medicine is the dispensing of National Insurance scripts. He cannot hope to secure any great place in the sun of popular favour unless he can convince the public that he is concerned with the prevention as well as the treatment of disease. There is a very strong commercial side to medicine, but the physician has the foresight to keep it in the background, and the whole of his training emphasises the necessity for doing so. With the pharmatic this different and the side of a preference. cist it is different, and it is idle to talk of a professional side at Conference meetings when the majority of the listeners are out to make a living by a successful shop, or, better still, several shops. The modern practitioner of pharmacy becomes an apprentice with this idea in his head, and he has little or no scientific leanings. If as he grows older he develops a taste for examinations he abandons pharmacy and goes in for medicine, but he rarely does so with a view to becoming a scientist. He "walks the hospitals" to better his social position, or perhaps please his womenfolk. I do not despair of the professional side of pharmacy, but up till now we have not created an atmosphere which will induce scientifically minded youths to take up the craft. Until this atmosphere is created talk about professional pharmacy is merely preaching to people in a language they do not understand. At present we are breaking away from all connection with the old alchymists and apothecaries, burying the ancient symbols of our craft, such as the carboy ing the ancient symbols of our craft, such as the carboy and the specie jar, in heaps of proprietary remedies or toilet requisites, and making our pharmacies pure salerooms instead of scientific laboratories for the art and mystery of the apothecary. While we progress in commercialism day by day, can we blame the dcctors or the public for denying us a professional status? Is the worship of commerce so pleasant and profitable that we should desert all the old gods and sacrifice at the altar of Gain the professional side of the "Future of Pharshould desert all the old gods and sacrines at the of Gain the professional side of the "Future of Pharmacy"?

Yours sincerely,
Ph.C. (26/7).

Ministry of Health Report

SIR,-The annual report of the chief medical officer of the Ministry of Health (C. & D., July 23, p. 55) gives some interesting figures, especially in reference to the order of frequency in which various diseases are treated, and it would be more useful to know whether these statistics are compiled from the number of individual attendances, or only from the separate cases of a particular complaint, as this would make a considerable difference to the result. Under the diseases specified it may be noted that the majority of them are, in our present state of medical knowledge, more or less incurable, and the treatment is largely palliative, but does not produce any permanent improvement. Thus we may take in the order named nasal catarrh, digestive complaints, nervous disease, rheumatism, septic conditions, anæmia, heart disease, and tuberculosis, and if we call to mind the panel customers who are being treated for these complaints we find that they drag on wearily month after month without improvement, or, in the case of the more serious maladies, with a gradual decline, until they pass out of our notice, either having gone to a hospital or else having passed away altogether. This, to my mind, is the weakest part of the panel treatment; a patient goes to a doctor, and his com-plaint is diagnosed as some form of chest trouble; he is ordered, nine times out of ten, "mist. tussis" because it is in the formulary book, and on every succeeding visit he gets the same mixture because he had it before. Or it may happen that on occasion he sees a locum or a partner, when he is treated by description instead of pre-scription—that is, he describes what the last bottle looked like, and is probably ordered something totally different, which has no connection with his complaint at all. There should be some co-ordination of treatment and also of comparing results, when we should see what actual benefit has been derived by the insured person, and there should also be some method whereby he is assured as much consideration as a private patient. Of course it is so theoretically, but, like many other good theories, this one falls to pieces in practice.

Yours faithfully,

STATICIAN (19/9).

American Perfumers and Raw Materials

SIR,-Over a year ago we drew the attention of the American perfume industry to the inherent dangers of the licensing system embodied in the Longworth Bill. We say now what we said then: "The American perfumer should be permitted to have free and unrestricted access to the world's markets for his raw materials. Unless he has that freedom, he will be placed at a serious disadvantage in his efforts to produce goods equalling in quality those made by his foreign competitor." As American manufacturers we would be the direct beneficiaries of a licensing system, in that it would offer us vastly greater protection against the competition of foreign products than even an extremely high tariff. However, in justice to the American perfumer and animated by a desire to co-operate with him in his efforts to maintain the quality of his goods on a par with those of foreign origin, we are now, and always have been, unalterably opposed to any form of licensing system whatsoever. While the Longworth Bill failed to pass, the essence of it, the licensing system, is embodied in the Emergency Tariff Act which is now in force. It is true that the licensing feature of the Act is effective only for three months beginning May 28, but it is planned to extend the life of the licensing feature for three years in the permanent Tariff Act which has just been introduced by the Ways and Means Committee of the House of Representatives. We earnestly suggest to every manufacturer who believes in having free and unrestricted access to his raw materials that he communicate his views immediately to his Congressional representatives.
Yours truly,

New York.

MORANA INCORPORATED.

Leicester Pharmacy.

SIR,-I was rather surprised to see that the report of the Leicester and Leicestershire Pharmaceutical Association had merited comment (C. & D., July 23, p. 53).

Evidently explanations are due to pharmacists in other towns and districts as to the conditions ruling in Leicester and Leicestershire Pharmaceutical Association.

(1) All pharmacists in business on their own, with only one exception, were members of the L. and L.P.A. The majority of pharmacist managers were also members. Membership is restricted to pharmacists.

(2) The L. and L.P.A. had two sections—the General Section and the Employers' Section.

(3) An independent organisation was also in beingnamely, the Leicester and Leicestershire Pharmaceutical Assistants' Association, available for pharmacist managers and assistants, unqualified assistants, and apprentices.

In common with other districts a desire was expressed that a branch of the Retail Pharmacists' Union be formed. This was brought before the council of the L. and L.P.A. as a resolution from the Employers' Section, and a committee was appointed to see how far that could be done without seriously affecting the organisation as then in being. Before that committee met a report appeared in the "Pharmaceutical Journal" (May 7) in which it was plainly put forth that the Pharmaceutical Society of Great Britain had committed itself to the principle of establishing local branches of the Society, the membership to be restricted to members and student associates of the Society. This simplified matters considerably, and gave a straight lead to both the special committee and the council as to their course of action. The Employers' Section work could be, and is being, carried on by the new branch of the R.P.U. As stated in the report, a copy of the resolution was sent to all members of the L. and L.P.A., and no one opposed the resolution at the meeting. The C. & D. omitted the word "provisionally" after the words "The nucleus of the branch of the Pharmaceutical Society was provisionally elected." This action will be confirmed, or otherwise, at the first meeting of the local branch of the Pharmaceutical Society, of which there are ninety-two members in Leicester and Leicestershire. There is no desire to enter into any controversy. Leicester felt the course was clear, and that both organisations would be well supported. Splendid work for pharmacy has already been accomplished in Leicester and Leicestershire, and with the policies of both organisations clearly defined the good feeling and hormony which have evicted defined the good feeling and harmony which have existed in pharmacy between both employers and employees will, if possible, improve under the new conditions.

Leicester.

Yours faithfully,
FRED H. CLARK.

The Chemist's Title

SIR,-I have been much interested in the letters which have appeared in the C. & D. under the above heading recently. Like one of your correspondents, I deplore the disappearance of the term "apothecary" from English pharmacy. Your readers will, however, be interested to hear that the term is still used in Ireland. Formerly the historic houses such as Hamilton, Long & Co. described themselves as State Apothecaries and Chemists to the Queen; but, returning to Dublin after many years' absence, I looked in vain for the old description. Such firms now proclaim themselves "State Chemists." I found one pharmacist describing himself as "Dispensing Apothecary." He is no doubt "L. A. H. Dublin," but it is rare indeed to find an apothecary actually practising as such. I doubt if there is a single one doing so in Great Britain.—Yours sincerely, FARMACISTA VIAGGORI (8/5).

The Postage Rates

SIR,—While I sympathise largely with the views of your correspondent "Country First" (C. & D., July 16, p. 62), I think the general impression is that the rates of postage are absurdly too high and a great hindrance to business. If a number of people would adopt the system of posting abroad it might have the effect of forcing our Post Office authorities to put their house in order and adopt more businessing including absurdity.

Yours, etc., adopt more businesslike methods. I consider the $1\frac{1}{2}d$.

VIGILANT (22/9).

Legal Queries

J. S. C. (14/7).—If you attach a doctor's name to a proprietary ointment, any medical man of the same surname in the district would probably have a good reason for taking proceedings against you.

Chiswick (26/7).—Full particulars regarding the registration of trade-marks are given in The Chemist and Druggist Diary, 1921. If there is any point not covered in the article we shall be glad to answer further inquiries.

- F. W. P. (19/7).—Dangerous Drugs Act.—To sell to opii or cocaine hydrochlor, to a medical man on and after September 1, you will need to take out a licence, as chemists are only authorised to dispense prescriptions, and an order for the drugs is not a prescription. Particulars regarding the issue of licences have not yet been issued, but if, as is rumoured, the fee is to be fixed at a high rate, you will probably find it impossible to continue the supply of "dangerous drugs" to dispensing doctors.
- I'. W. (22/7).—(1) Unqualified persons may not be in possession of cocaine at the present time, under the Cocaine and Opium Regulation, which on September 1 is to be replaced by the Regulations made under the Dangerous Drugs Act. (2) The retail sale of scheduled poisons is confined to registered chemists, executors of chemists who carry on business according to the Pharmacy Acts, and to limited companies carried on in accordance with the Poisons and Pharmacy Act. (3) Only chemists may be added to the panel of chemists dispensing prescriptions supplied under the Medical Benefit of the National Insurance Acts.

Revivesco (16/7).—The superintendent of a limited company carrying on business as a chemist must not act at the same time in a similar capacity for any other body corporate, or in Scotland, firm or partnership; but this does not prohibit the superintendent from carrying on a business of his own. If the superintendent does not personally conduct the business it must be bona-fide conducted under the direction of the superintendent by a qualified chemist, whose certificate of qualification must be exhibited in the shop. It is the superintendent that must be a member of the board of directors in cases where the company uses the title "chemist."

- B. B. (18/7) asks what stamp duty is required upon (a) a deed of gift, and (b) a loan? Within what time must the documents be stamped? [(a) The deed of gift must be submitted to Somerset House for adjudication, and be stamped within fourteen days thereafter. The duty is 11. per cent. on the value of the property. (b) If the loan is secured by a mortgage, or other deed containing a covenant for repayment, it must be stamped within thirty days of execution, the duty being 2s. 6d. per cent. If the loan is made upon a promissory note or other note of hand, the rate of duty is 1s. per cent., and stamped paper should be used. "B. B." should certainly engage a solicitor to prepare any deed required.]
- A. S. (26/7).—"Dangerous Drugs" Limits.—Our subscriber submits the following formulas for advice as to whether the retail sale of the cough-mixtures will be prohibited under the Dangerous Drugs Act:

The limit of anhydrous morphine is 1 grain in 520 m, therefore the amount shown above (1.72 gr. in 480 m) comes within the Act. To take it out of the Act the amount of tr. opii should be reduced to mxxx., or the mixture diluted to 3j. 5vj. (2) Mist. tuss. containing morph. acet. gr. cxxxv. in 16 pints. The safety dilution for morph. acet. is 1.2 gr. per oz. The mixture referred to contains 0.42 gr. per oz., and is therefore outside the Dangerous Drugs Act.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

B. S. (14/7).—SYRUP OF BROMOFORM.—The formula given in Martindale's "Extra Pharmacopæia" is as follows:

 Bromoform
 ...
 ...
 mij.

 Alcohol (90 per cent.)
 ...
 mlxxx.

 Syrup
 ...
 ...
 5ij.
 9ij.

 Glycerin
 ...
 ...
 3ss.

The syrup is somewhat pungent by reason of the bromoform, and may be diluted at the time of taking. A formula for syr. bromoformi co. was given in the C. & D., II., 1920, p. 1652.

C. S. M. (15/7).—Chemical Trick.—The liquids needed for producing a clear solution when a red fluid is poured into a black liquid are as follows:

For the Red Solution: Five c.c. of 10-per-cent. sodium sulphite, ten drops 0.880 ammonia solution, and sufficient alcoholic phenolphthalein to give the required deep red. Water to form 100 c.c. Methylated spirit should not be used.

For the Black Solution: Five drops concentrated sulphuric acid, 5 c.c. of about 10-per-cent. iodine in potassium iodide, with sufficient starch solution to give the required dark blue or black. Water to form 100 c.c.

On pouring the red liquid into the black solution a clear liquid results.

- S. T. P. (15/7).—The Drug Index figure for June 1920 was 362.7 for drugs, and 403.2 for dressings.
- E. H. (18/7).—CLEANING COPPER WIRE.—Immersion in nitric acid will clean the oxidised copper wire, which should then be rinsed with water. No mechanical assistance is required in the cleaning process, but the copper should not be left in after the coating has been removed, as it will be acted on by the acid. The operators should be cautioned as to the nature of the acid.
- S. L. (26/7).—ECZEMA OINTMENT.—The following is the formula for which you ask :

Ung. ac. borici 19 parts Ung. zinci ... Ung. ac. carbol. 38 parts 19 parts Ung. hydrarg. ammon. 19 parts 2 parts Liq. carbonis 3 parts Phenolis Misce ft. ung.

Colloid (1/21).—There is no standard of wages for the position you indicate. The occupation is unusual, and not one which would be offered to an inexperienced person.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," July 15, 1871

The Tobacco Controversy

Dr. Murray is very angry with boys who must needs smoke, and he gives statistics which sufficiently prove, what we fully believe, that the practice of smoking indisposes and unfits the mind for intellectual exertion. This is a very serious matter indeed, the more so because the habit is so prevalent among students of every profession. The soothing influence of tobacco on the nervous system, at least of young persons, is a grotesque misrepresentation, as any smoker may prove if he will resolve to discontinue the practice for a week only. He will enjoy a feeling of vigour and an elasticity of mental power which will amply compensate for the lost luxury. That smoking impairs the digestive powers and, with some persons at least, affects the heart is undoubted, and the only good thing that can be said about it medicinally is its possible action as a disinfectant. The universality of the habit proves something certainly; but we should hesitate to accept such universality as an absolute proof of excellence. It may only prove the old saying that "one fool makes many."

These brief particulars demonstrate the numerous advantages of the new ENO Case

There are no nails to extract or iron hoops to remove in opening the ENO case. You simply cut the sealed wire affixed to eyelets on the lid with a pair of ordinary scissors—slide back lid—lift off—



—then remove the showcards and corrugated packing—and the carefully packed bottles of ENO can be quickly transferred to your stock. When returning case you replace packing material—insert lid—and slide back into position—



-secure by tying eyelets together with string-cross out your name and address on label-then hand case back to carrier for return. The entire operation of unpacking and returning case can thus be accomplished in three minutes.





The ENO patent case ends all packing troubles

EVERY Pharmacist will appreciate the utility and convenience of this new non-pillerable case, which has been specially designed and patented by the House of ENO for the purpose of giving even better service to our many retail friends.

In the past the retailer has justly dreaded the labour involved, and the litter caused, when opening cased goods. Actual tests made with the ENO case prove that it can be opened, unpacked, packing material returned to case, lid replaced and tied ready for return to our Works, within three minutes. With an ordinary case this cannot possibly be done under thirteen minutes. The ENO case is so easily and quickly unpacked that it is practicable to ask the carrier to wait while the process of unpacking takes place, thus eliminating all bother of storage.

The ENO case is non-pilferable. If the contents have been tampered with this is readily detected, either through damage to case or broken seal. Corrugated paper is used as packing material, which does not cause litter, and can be replaced in the empty case. There is absence of hammering and other noise usually associated with the work of unpacking, and all risk of injury to assistants through the use of heavy tools is avoided.

The new ENO case is used for executing one gross orders, and all retailers are asked to co-operate with us as much as possible by adhering to the directions for unpacking which are clearly stencilled on each case.

ENO'S FRUIT SALT

For advertising material and full details of our One-Gross and Half-Gross SPECIAL WINDOW DISPLAY OFFERS, which allow you a definite profit of 9d. and 8d. per bottle respectively, please write to the SALES MANAGER, J. C. ENO, Ltd., Blackfriars House, New Bridge Street, London, E.C. 4.

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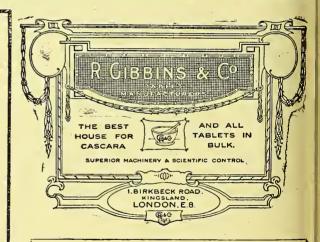
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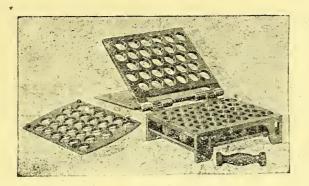
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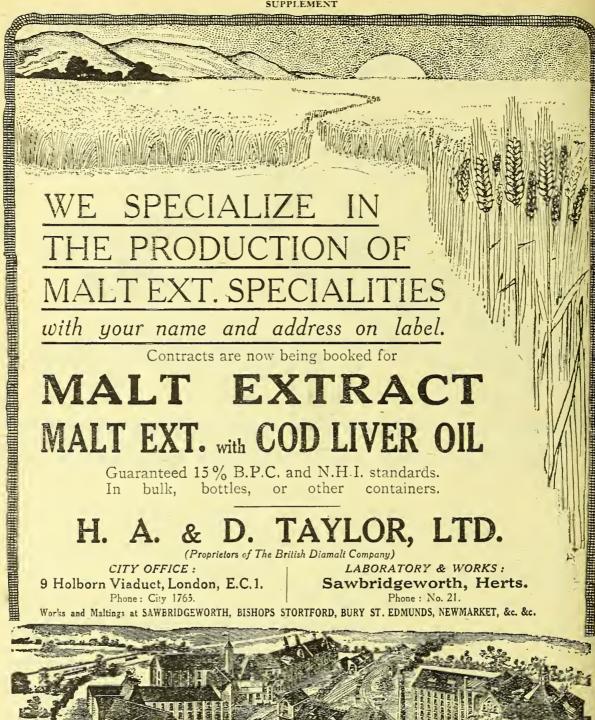
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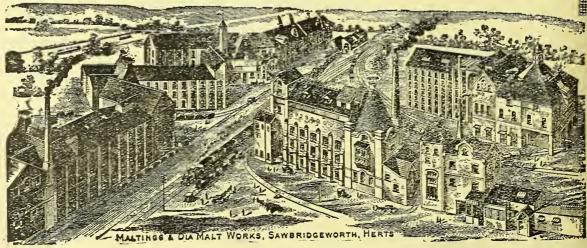
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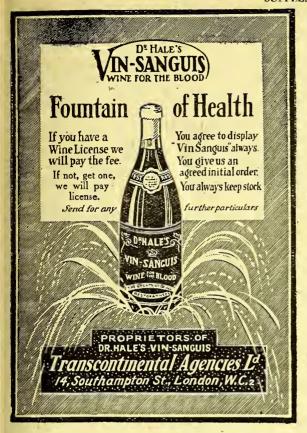
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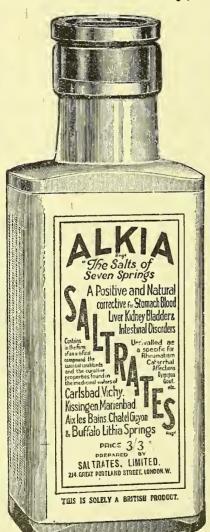
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ALKIA SALTRATES

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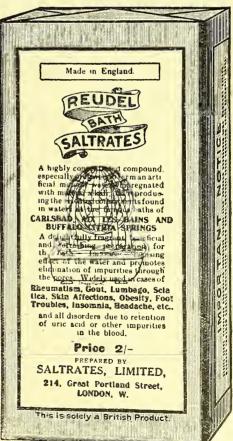
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We can guarantee immediate delivery of orders for any quantities.

We are fortunate in being able to announce that foresight shown in the laying-in of very heavy stocks of supplies in anticipation of the shortage which afterwards developed, still enables us to guarantee full and prompt delivery of orders for any quantities.

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If it should happen that I am not already doing business with your good selves your enquiries will receive prompt and careful attention.

At the moment we have in stock such lines as Medical Flats, Panels, Vials, Kalis, Limes, Mexicans, etc. etc.

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Boracic Socks

Fixed Selling Price, 6d. per pair. Cost, 4/- per dozen. Six dozen lots, 46/- per gross.

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No. 3363 Blue & Gold ,, 3365 Red & Blue

23/6 per dozen.



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Hospital pattern		per doz.	25 0	Hospital pattern		•••	per doz.	34 0
lens front		. ,,	28 0	lens front	•••		- ,,	37 0
60-seconds, plain	• • •	.,	28 0 31 0	60-seconds, plain			11	40 0
lens front		,,	34 0	lens front			,,	43 0
30-seconds, plain		.,,	34 0	30-seconds, plain			,,	46 0
" lens front			37 0	lens front	•••		• • •	50 0
,,		EACH	ONE IN	METAL CASE.			.,	

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				ist price		
				per doz.	6.	đ,
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2	,,	" lens front		28/-	4	8
1	60-seconds,			31/-	2	7
1	19	lens front	•••	34/-	2	10
1	30-seconds,	plain		34/-	2	10
1	,,	lens front		37/-	3	1
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10 Thermometers 20/_ List for 20/_ List Price £1

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In return for cash send you post free the following assortment of "Duo-in-Uno" Brand.

				ist price		
			1	per doz.	5.	d.
2	Hospital patter	n		34/-	5	d. 8
1	"	lens front		37/-	3	1
1	60-seconds, plai			40/-	3	4
1	,, lens	front		43/-	3	7
1	30-seconds, plai	n		46/-	3	10
1	,, lens	front	•••	50 / -	4	2

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Gilt, Nickelled, Coppered, Lacquered

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July 29, 1921.

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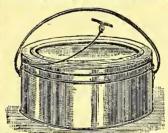
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10 × 8	,,	,,	,,	6/-	4/7
12×6	,,	,,,	,,	5/9	4/4
12×8	,,	,,	,,	6 / 9	5/1
14 × 8	_ ,,	,,	,,	7/6	5/8
12×10) ,,	, 1	*1	7/9	5/9.
14×19	2 ,,	,,	,,	9/4	7/-
16 × 19	2 ,,	,,	,,	11/6	8/8

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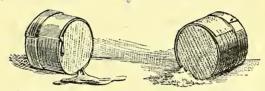


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WILLIAM FOX & SONS, having purchased the stock of printed matter and the Registered Trade Mark rights to the well-known Brand

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Tin sufficient for 80 lbs. of Fruit for 1/-

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from Small Negatives.

NOW IS THE TIME TO PUSH DAYLIGHT ENLARGERS.

The "Ensign" series of fixed focus Printing boxes produce large pictures from small negatives with the greatest of ease, no experience necessary. Tell your customers about them.

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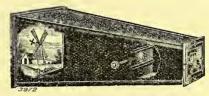
Enlarges to Post-card size, $5\frac{1}{2} \times 3\frac{1}{2}$.

No. 1, for use with $2\frac{1}{2} \times 1\frac{1}{4}$ in. negatives.

No. 2, for use with 3×2 in negatives.

21/- each.

The "Ensign."



No.	For negatives Enlarges to $3\frac{1}{2} \times 2\frac{1}{2} \dots 6\frac{1}{2} \times 4\frac{3}{4} \dots$	£	S.	d.
1 .	$3\frac{1}{2} \times 2\frac{1}{2}$ $6\frac{1}{2} \times 4\frac{3}{4}$	1	12	6
2	$\frac{1}{4}$ -plate $8\frac{1}{2} \times 6\frac{1}{2} \times$	1	1.4	0
3 .	$3\frac{1}{2} \times 2\frac{1}{2}$ $8\frac{1}{2} \times 6\frac{1}{2}$	1	17	6

The "Ensign-Klito."



To reduce bulk it is constructed in two parts, fitted one into the other, instantly set up ready to use.

One into the ether, metalici	2	
No.		£ s. d.
2 1 plate to whole plate, and 32 X 22 to 2 plate		2 5 0
3 5 X 4 to 10 X 8, and t-plate to whole-plate		3 0 0
4 $\frac{1}{4}$ -plate to 12: \times 10, and $3\frac{1}{2}$ \times $2\frac{1}{2}$ to whole-plate		4 0 0
5 5 × 4 to 12 × 10, and 1-plate to 10 × 8		4 10 0
5a Post-card size to 12 × 8, including Glasses for F 6 ½-plate to 15 × 12, and ¼-plate to 10 × 8	111112	5 10 0
Se's of thin glasses and masks for enlarging from fi	lms, l	I/- each.

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Enlarges to Post-card-size, $5\frac{1}{2} \times 3\frac{1}{2}$ in. No. \not s. d. 0. For use with V.P.K. size Film negatives 1 1 0 1. ,, ,, ,, $3\frac{1}{4} \times 2\frac{1}{4}$ in. ,, ,, , 1 1 0 00. ,, ,, ,, $2\frac{5}{16} \times 1\frac{8}{4}$ in. Glass ,, 1 2 6

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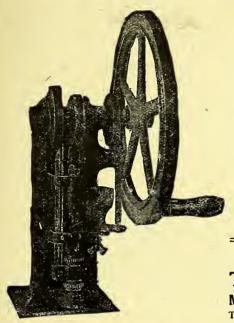
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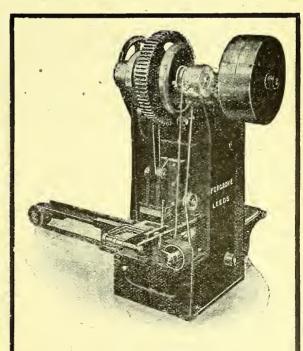
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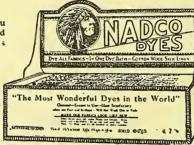
PROFITS in Nadco Dyes are very generous, and the rapid turnover will build up an ever-growing trade that will prove most gratifying.

Nadco Dyes retail for 1/-. You get 25% on the selling price and if ordered in 1 gross quantitie; 5% extra.

Order from your wholesaler, or

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It is suggested

that Nadco be ordered in the gross assortment, packed in the Counter Display Case (illustrated below). This case contains a complete line of colours, which can be filled out easily as certain colours are exhausted through sales made. Each

COUNTER DISPLAY CASE

contains the following gross assortment of Nadco Dyes in the 20 heautiful Fast Colours.

1 doz. Pink Old Rose Old Blue ½ ,, 2½ ,, Scarlet Navy Blue Cardinal Black Wine Grev Sand Taupe Yellow Heliotrope Orange Purple Light Brown ½ " Light Green Dark Brown 1 " Dark Groon

1 COLOUR CARD

NOTE. — The Colour Card should always be kept with the display case where customers can see it quickly and can consult it freely. The heautiful samples of actual Nadco dyeing go far in making Nadco Sales.

Your Wholesaler can supply Nadco Dyes in the Display Case without extra charge. Insist upon having your first order packed in this way.

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Modern Suspensory Types.

'FLYSAC'

Pleated Tape (as illustrated).

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Rolled Band.

In two widths 2-in. and 4-in.

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The original and oldest STICKY FLY CATCHER in the market. 36 years' reputation.

The 'Fly Cemetery,' in Sheets.
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Prices on application.

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are publishing, on August 2nd, a complete reprint of the

Sundries Section of their Price List,

which will be the most up-todate list available to the trade, and one which you cannot afford to be without. May, Roberts' print their own price lists and this enables them to make corrections right up to the last moment, and that is the only sort of list. which is of use under to-day's trade conditions.

The marketing of Chemist's Sundries without the assistance of travellers necessitates a very fine catalogue, and that is what this list is. The illustrations faithfully represent the goods, the prices are low and the range of choice large. Remember that we are always ready to credit any goods with which you are not satisfied if you return them at once—but it is very seldom indeed that a customer has occasion to take advantage of the privilege.

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And at DUBLIN & PLYMOUTH.

MAND DRUGGIST THE CHEMIS

42 CANNON ST. LONDON E.C. 4

JULY 30, 1921

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements atended for the Supplement must FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS. Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

—LONDON, S.W.—Old-established Business, situate in attractiverside suburb; returns exceed £3,000 yearly; net profit 77; books kept by accountant; full investigation invited; pe for further development; moderate rental; on lease; price 200; vendor retiring.

—LONDON, N.W.—Ready-money Business for disposal, ough serious illness; the returns show a steady increase, last r's turnover being £1,721; rent £50; held on lease; an uediate sale is desired, and no reasonable offer will be refused.

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HERTS (Borders of) .- Old-established Business; returns .—HERTS (Borders of).—Old-established Business; returns tyear £3,250; net profit £800; small residence; rent £45; years' lease; practically no opposition; price about £1,500.
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,500. --WESTERN .—WESTERN SUBURB.—Ready money Retail, capitally late in shopping thoroughfare; returns, present rate, between 0 and £40 per week; gross profit one-third; rent £35; price

9.—G.W. MAIN LINE (Attractive Riverside Resort).—Good-class Retail and Dispensing Business; returns present rate, £5,000 per annum; net profit 25%; modern double-fronted shop, fully stocked; moderate rental; held on lease; terms, valuation of stock and fixtures and premium for lease and goodwill, or lump sum if desired

10.—BERKS.—Ready-moncy Retail and Dispensing Business, well situate in good residential town and holiday resort; gross receipts £3,200; net profit 25%; rent £60; there is a small residence and garden; long lease; terms, goodwill and valuation of stock and fixtures.

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12.—SOUTH COAST.—For immediate disposal, through dissolution of partnership, branch Business, recently opened in good-class district; returns average over £20 weekly, and there is scope to largely augment the turnover under personal attention; double-fronted shop; main thoroughfare; good stock; terms, valuation of stock and fixtures.

13.—MIDLANDS (Large Manufacturing Town).—A Retail and Wholesale Business, comprising small Packed Goods; returns upwards of £12,000 per annum, with scope for development; long lease; terms, stock and fixtures by valuation and premium for lease and goodwill; the investment offers a good opening for two energetic men.

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VALUATIONS

lessrs. O. & Co. desire to emphasize the necessity of a perodical Statement of Account, by which means alone **Profit**, he value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

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- 3. SURREY.—Unopposed; easy access to town; goodclass retail and dispensing business; returns, £3,000; net profit nearly £900; good house; price, £2,200; strictest investigation; proper books kept.
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We are now booking dates for July and August, and invite early applications for our special terms.

ESTABLISHED 1870.

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Head Offices - 26/28 Kimberley House, Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool).

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LEGAL.

EDWIN DAWSON, Deceased.

Pursuant to the Statute 22 and 23 Vict. Cap. 35.

NOTICE IS HEREBY GIVEN that all Creditors and person having any claims or demands against the Estate of EDWI DAWSON late of 80 Pifshanger Lane Ealing in the County London Chemist (who died on the 5th day of April 1921 at Letters of Administration to whose Estate were duly grant to Edith Lizzie Coghill the natural and lawful sister and one the next of kin of the deceased by the Principal Registry of the Probate Division of His Majesty's High Court of Justice on the State was a Solicitor for the Administratrix, their fur Christian names and surnames, addresses and descriptions the fur particulars of their claims and a statement of their account and of the nature of their securities, if any, held by them on before the 1st day of September 1921, after which date the sa deceased among the parties entitled thereto having regard on to the claims of which she shall then have had notice, and wont be liable for the assets or any part thereof, so distribute to any person of whose claim she shall not then have had notice. Solicitor for the said Administratrix.

DR. FRANCIS JOSEPH GRAY, Deceased.

A LL PERSONS having claims or demands against the Esta of the late Dr. Francis Joseph Gray, of "Caulfield," Earle town, Lancashire, deceased, are requested to send full detail thereof to the undersigned forthwith.

Dated this 27th July, 1921.

LONGTON & LEWIS,

Solicitors for the Administrator.

Cross Lane. Earlestown.

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6s to 40 words or less; 6d. for every additional 10 words or less, prepaid.

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MERICAN Agency wanted.—Large American Corporation, of high financial standing, with sales organisation covering the ted States, Canada, Mexico, Cuba, Porto Rico, and the West es, will consider another Agency for Heavy Chemicals, Drugs, llied products from a first-class British manufacturer or pror; competitive prices, quality, deliveries, etc., absolutely neces; this is a very desirable connection. Please give full details, I samples, etc., with reply to save time, first to W. D. Henon, 522 Fifth Avenue, New York, U.S.A.

ANTED, Distributing Agents for Midlands, also for Eastern Counties, Scotland, West of England, and Wales; Manuvers of series of attractive and profitable well-known Pharmaical and Tollet Preparations and Medicated Socks require getic Sole Agents with "live" representatives regularly ring the ground; good proposition for progressive firms withing ability and connection among Chemists. Apply, first ance, 1/35A, Office of this Paper.

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HEMIST'S Business required for September; coast or country preferred, with scope for increase; cash available; bank refers. Particulars in strict confidence to Sulla, c/o Messrs. J. alley, Ltd., Victoria Bridge, Manchester.

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WANTED, good sound Retail and Dispensing Business in Midlands, with net profit of £500 or £600 per annum; all replies treated in strictest confidence. Apply 165/2, Office of this Paper.

FOR SALE.

L ONDON, S.W.—Advertiser closing down Drug Department in connection with other departments, is open to immediately dispose of complete stock of Fittings, etc.; stamp. "Statim" (165/30), Office of this Paper.

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CATFORD, S.E.—Lady Assistant, not under 25, required (at once) for middle-class suburban business. Apply, with full particulars as to experience, etc., to 13/44, Office of this Paper.

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L ONDON.—Unqualified Assistant with Dispensing and Photographic experience required; permanent and comfortable berth; would suit smart youth who has recently completed apprenticeship. Apply "B." (165/390), Office of this Paper.

L ONDON.—Qualified Assistant, not over 30 years, wanted for three weeks from 8th August; sole charge; good references essential. State terms (outdoors) to "St. George" (42/48), Office of the Paper.

L ONDON, E.—Qualified Manager, married or single, for Counter and N.H.I. business; permanency, with commission on profits; state when at liberty. Apply "L." (165/39), Office of this Paper.

L ONDON, N.W.—Qualified Manager, married, as Manager for a good family Retail and Dispensing business; good house; excellent opportunity for a live man. Apply "P." (165/392), Office of this Paper.

LONDON, S.W.—Wanted, Counter Assistant, of gentlemanly appearance, with good experience of Drugs and Perfumery; about 25 years of age; hours of work, 8.45 a.m. to 6 p.m. Apply by letter, giving full particulars of experience, to Box 485, Sells' Advertising Offices, Fleet Street, E.C. 4.

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MIDLANDS.—Qualified Chemist to manage important branch in industrial town; must be neat, accurate, young, and energetic; applicants should state experience, age, and salary required. Apply 165/18, Office of this Paper.

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WEST KILBURN.—Junior; for Counter and N.H.I., for about a month during holidays. R. R. Pratt, 94 Canterbury Road, Kilburn (near Queen's Park Tube, Bakerloo).

A COMFORTABLE home offered to young qualified Chemist for August and September (longer if necessary); Photography, Developing and Printing essential. Reply by return, stating salary, references, etc., to Bayley, Chemist, Herne Bay.

A SSISTANTS, unqualified, outdoors, single, wanted for August 29th; good Dispenser and Photographic gaslight printer essential; reasonable hours. Apply, stating salary required, enclosing photo if possible, to A. Elliott Sewell, Chemist, Huntingdon.

A SSISTANT required, middle of August, for brisk Retail and N.H.I. Dispensing; must be capable and experienced; outdoors; permanency; age about 30 years. Apply F. White, Ltd., Chemists, 157 Commercial Road, London, E. 1.

A SSISTANT; age 22 to 28; active, capable; knowledge Photographic work; August 8th or 15th. Apply, with photo, stating salary, Hockin, 5 Lewes Road, Brighton.

CAPABLE, qualified Assistant, single preferred, abstainer, age about 30, experienced in N.H.I., for industrial district, West Riding town (Yorks); not afraid of heavy trade; give usual particulars, salary, etc.; permanency to energetic man. Apply "Rhei," 64 Avenue Hill, Leeds.

DISPENSER (qualified) required from end August. State qualifications, experience, and salary to Drs. Tanner, Hussey & Couchman, Farnham, Surrey.

DOCTOR'S Dispenser wanted from 6th August to 20th, both inclusive, near Victoria Docks, E. Apply, stating terms, 164/7, Office of this Paper.

EVENING Work.—Assistant wanted each evening from 5 p.m. till 7 p.m., Saturday 5 p.m. until 8.30 p.m.; not required on Thursdays or Sundays; from August 12th until August 26th. Apply 167/1, Office of this Paper.

EVENINGS, 8 to 12, and Sundays.—Assistant wanted for the above hours; good experience, speaking fluent French, in return for good salary. Apply 24/65, Office of this Paper.

JUNIOR Assistant required (outdoors), lady or gentleman; Hall qualification and Counter experience essential. Apply, stating age, references, salary required, to T. & W. Woodruff, Pharmacists, Cheadle, Cheshire.

JUNIOR; age about 20; must have had first-class training and be a good Salesman. State age, height, experience, salary required, photo if possible, when at liberty, with references, to Mr. Austen, Messrs. G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

JUNIOR (unqualified) or Improver wanted immediately; must be a worker and one used to general suburban trade, with Photography preferred; state age, height, references, and when disengaged; Leicester scale of wages paid; outdoors. J. Barker, Evington Road, Leicester.

LOCUM Assistant (lady or gentleman) for two weeks from August 8th; state salary required and other particulars. Frost, Chemist, 143 High Street, Sutton.

L OCUM Bookkeeper-Dispenser (either sex) wanted immediately for three partners; possible permanency. Apply Dr. Jackson, 61 St. Fillans Road, Catford, S.E. 6.

MANAGER for small village business near London; competent, qualified man, of mature experience, with good references; living accommodation could be provided. Apply, stating age, salary required, etc., to "Permanency" (167/10), Office of this

PARKE'S DRUG STORES, LIMITED, require the services of an unqualified Assistant; applicant must be young, energetic, a good Salesman, and a reliable Dispenser; highest references required. Apply 65 Harmood Street, Camden Town, N.W., any morning (except Saturday) between 10 and 12 o'clock.

QUALIFIED, for about four months, mostly N.H.I. Dispensing; good hours; suit elderly man; N.E. Coast. Apply 161/39, Office of this Paper.

QUALIFIED Manager, married, required to take full charge of a good business; interest in the profits offered; good house; eapital opening for a really capable man anxious to settle down and do well. Apply "T." (165/391), Office of this Paper.

QUALIFIED Manager required immediately; applicant must be energetic and have plenty of initiative, with sound knowledge of management; high-class London experience essential. Apply, stating age, height, and experience, to "Statim" (P.C.B. 11/27), Office of this Paper.

QUALIFIED Assistant, at once (holiday relief), for month or so; brisk Retail and N.H.I.; state age salary (in- or outdoors), and references. R. P. Bristow, 17 Oxford Street, High Wycombe.

RELIEF.—Qualified Assistant required for the first three weeks in September. Bennett & Co., 59 Camberwell New Road, S.E. 5.

SMART, young, qualified Assistant wanted, also elderly qualified, for supervision only. State experience and salary required to 162/5, Office of this Paper.

TEMPORARY Assistant for four or five weeks wanted about middle of August; Junior with knowledge of Photo trade preferred; outdoors; hours 9 to 7, Saturday 8. Apply, usual particulars, Spyvee, Pharmneist, Sleaford, Lines. Applications not answered within five days declined.

TEMPORARY Assistant (qualified) for about six weeks. Kindly send full particulars and salary required (outdoors) to A.B. Higgs, Chemist, Horley, Surrey.

UNQUALIFIED Assistant wanted immediately; applicant must be young, energetic, reliable Dispenser, and good Salesman, with sound knowledge of Photography; must be resident in London. Apply by letter, giving age, full experience, and salary required, to "Progress" (30/47), Office of this Paper.

UNQUALIFIED Assistant; capable in all branches Photographic department; send particulars. Apply G. H. Cole, Chemist, Blundellsands.

UNQUALIFIED Junior Assistant; must be good Dispenser and used to good-class business; reasonable hours; no Photography. State salary (outdoors) and full particulars in first letter to 166/24, Office of this Paper.

UNQUALIFIED Assistant wanted for brisk business; Dispensing and Counter; London, E. Apply, giving particulars of references, salary required (those not answered declined with thanks), 167/9, Office of this Paper.

WANTED, Junior Assistant for City business; short hours or part-time entertained; letter stating age, salary etc. "Chemist," 56 Lynton Avenue, West Ealing, W.

WANTED, lady as leading Assistant in high-class toilet department; South Coast; age 35-40; smart, attractive, superior address, photo, height, references; salary no object to suitable person. Apply 164/5, Office of this Paper.

WANTED, first week in August, smart Junior, with good knowledge of Photography and Counter work; S.W. London, Apply 165/6, Office of this Paper.

WANTED, unqualified Assistant to manage small branch, speciality and proprietary business; good character indispensable; permanent situation. Hulme, Chemist, Nottingham.

WANTED, qualified, North England; mostly Dispensing; good hours; suit elderly man; state salary. Apply 161/39, Office of this Paper.

WANTED, qualified Pharmacist; good Dispenser and Counterman. Enclose photo to J. F. A., c/o Clay & Abraham, Liverpool.

WHOLESALE,

Se for 40 words or less; 6d. for every additional 10 words or less, prepald.

A GENTLEMAN of proved ability and experience is required to fill a vacancy (September) of Pharmaceutical Representative resident (a) Northern Counties or (b) South-West Counties; a first-class record and connection essential. Full particulars in first instance should be addressed to "Medicinal" (11/150), Office of this Paper.

A VACANCY on the Representative Staff of London firm will shortly occur; the services are sought of an experienced Representative calling upon the Wholesale trade for promoting the 'sale of Surgical Dressings, Pharmaceutical Products, and Toilet Preparations. Applications will be considered only of those who can produce evidence of successful salesmanship in the direction indicated, and should give information as to territory, age, and salary required, to "Plasters" (11/15F), Office of this Paper.

A DVERTISING.—Required, an experienced, clever Writer of Advertisements for a Pharmaceutical Speciality house; must have a thorough sound knowledge of Pharmacy and Therapeutics. Reply, giving full particulars, to 27/150, Office of this Paper.

TIRST-CLASS Representative required, with sound knowledge Toilet Goods, Soaps, Perfumery; must be thoroughly experienced; salary, commission, and expenses; state full particulars (in confidence). Cussons, Sons & Co., Ltd., Kersal Vale Works, Manohester.

FOREWOMAN (experienced) to supervise girls' work in packing Toilet articles and Counter specialities; state experience and wages asked. Apply 24/64, Office of this Paper.

CENTLEMAN, calling upon Wholesale Druggists, Perfumers, and Wholesale Confectioners, required for district in London to represent a well-known house solely for their Essential Oils. Send full particulars of connection to 25/14N, Office of this Paper.

LIVE Commission Salesmen for (a) Midlands, (b) Scotland, (c) South Coast, wanted, with good connections amongst Wholesale and Retail Chemists, Perfumers, Stores, etc., to sarry non-combine Toilet Soaps and Preparations at competitive prices. Reply, in confidence, with full details of record, present turnover, ground covered, to B., Atlas Works, Elland.

PERFUMERY Traveller required for London; must have had experience in the trade. Apply, in confidence, by letter, with full particulars and terms required, to "Hyde," Box 807, S. H. Benson, Ltd., Kingsway Hall, W.C. 2.

PEPRESENTATIVE for London; thorough knowledge of Druggists' Sundries essential, also good connection amongst strictly Wholesale buyers; good position and good prospects; permanency; state salary, referencea, experience, etc. Reply 165/9, Office of this Paper.

REPRESENTATIVES, with good and live Chemists' connection, are offered a well-known and good selling line on good commission; only ground open, London (North and North-West), Berks, Bucks, Wiltshire, Somersetshire, North Devon, Cornwall; send full particulars first letter. "X. Y. Z." (166/9), Office of this Paper.

PRESENTATIVE required by old-established Sundries house to cover district of South of England; firm have first-connections on this district, but must have a man who has brough knowledge of the requirements of the Retail Chemist, as regards Sundries and Packed Goods. Apply 25/140, of this Paper.

PRESENTATIVES wanted for all districts with established connection amongst Chemists, etc., to introduce high-class rop concentrated perfumes on commission basis. State ground ed and lines carried to 34/39R, Office of this Paper.

LESMEN already covering districts comprising Scotland, Midlands, South Coast, South Wales, West of England, to push sale of well known proprietary line now being introduced to ore with marked success; Press advertising campaign now in ress; applicants must be keen and men who will not expect things to commence. Write, giving actual area covered and re of present agencies, which will be treated in strict confice, "Opportunity" (30/48), Office of this Paper.

ANTED, by manufacturing firm in Birmingham area, young, unqualified Assistant for general laboratory. State experiage, and salary required, to "Business" (32/78), Office of Paner.

ORKING Foreman (experienced) to take charge of manufacture of Toilet and general Counter preparations; state exnce and wages asked. Apply 24/640, Office of this Paper.

ET-COUNTER Hands for London house; with Retail experience. Apply 15/52, Office of this Paper.

DUNG man, with practical Retail experience, required in Advertising Department of London Wholesale house; may be ified or unqualified, but must be a good salesman and possess the for display advertising. Full particulars of age, experience, salary required, and specimens of any advertising done, to 25B, Office of this Paper.

SITUATIONS OPEN,

(Colonial, Indian and Foreign.)

6s for an words or less: 6d, for every additional 10 words or less, prebaid.

ARIS.—Assistant; knowledge of French and Continental experience; photo, if possible (to be returned), age, height, rences, salary (outdoors). Roberts, 5 Rue.de la Paix, Paris.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less: 6d for every additional 10 words or less, prepaid.

e **Advertiser** may if rreferred, have replies addressed to this affice, and forwarded on payment of an additional charge of 1/-

A.A. -LOCUM-TENENS, 27, on leading Wholesalers' n or West Country. Please write, "M.P.S.," c/o Mr. Henshaw, armacist, 23 Wyle Cop, Shrewsbury.

CAPABLE, reliable, qualified man, who likes responsibility, desires position as Manager or Senior in a Pharmacy which is scope for tact and salesmanship; good all-round experice, especially in good-class Dispensing: 27; tall; a personal erriew, if possible, would be preferred. Smith, 79 Butler ad, Harrow.

CAPABLE Assistant, Manager, Locum; 39; Photògraphy; 20 years' sound experience; abstainer. "Qualified," 29 Nicholas Road, Brighton.

RELIABLE, highly recommended Managing Assistant wishes to correspond with a business Pharmacist with view to engagement; 20 years' experience; Optics, Dentistry, Photophics, Counter, Prescribing; disengaged; married; live over.

CAPABLE Pharmacist, tall, 30, desires permanency as Manager or Senior; excellent references; Photography. on, Marske, Yorks.

CAPABLE Assistant seeks position with good-class Chemist; young, tall, energetic; good address; Photography; good Disnaing experience; passed Part I. Terms to "Claviceps," 4 mbury Road, Tonbridge.

CAPABLE Manager, M.P.S.; 42; single; excellent experience, best references, good address; thoroughly reliable; years Manager last situation; first-class business; open to od offer. "Primus" (167/39), Office of this Paper.

CAPABLE and experienced Assistant, deferred in "Materia Medica," desires part-time engagement; best reference; w disengaged: M. N. B., 11 Willesden Lane, Kilburn, N.W. 6.

A PHARMACIST, 27, "Square" trained, energetic and reliable, requires permanency, London district, as Manager or Assistant; Dispensing, Counter, Window-dressing; excellent references. Apply "E. J." (P.C.B. 11/30), Office of this Paper.

A SQUARE-TRAINED M.P.S., age 27, single, with all-round experience, desires position as Senior Assistant in good-class Pharmacy; capable taking charge. "Chemist," 6 Spencer Street Lincoln.

A DVERTISER desires Managership or Senior Assistant; 28; qualified; good experience, references; free in about a month; Yorkshire preferred. "Manager," T. B. Robson & Co., Ltd., 10 Cheapside, Wombwell, near Barnsley.

A GE 27, qualified, requires permanency as Assistant or Manager; first-class references; excellent Dispensing experience, and all branches of profession; 11 years' experience; tall, keen, energetic; London or country. "Adaptable," 64 Agamemnon Road, West Hampstead, London, N.W.

A PPRENTICESHIP required. Please write M. Zamet, 32a Rupert Street, London, W. 1.

A S Assistant Dispenser; age 27; married; three years' experience as Assistant Dispenser and Dresser. M.L. 75250, Office of this Paper.

A N experienced Dispenser (lady), Hall; Hospital, Institution, and Surgery; excellent testimonials; in London or near. Apply 167/23, Office of this Paper.

As Locum or otherwise; active, energetic, thoroughly competent, Dispensing and Retail. "Minor," 55 Beauchamp Road, Clapham Junction.

As Locum; qualified Chemist; good experience; age 44; free August 16th; please state terms. 24 Leamington Road, Bournemouth.

A S Locum to August 7 or after September 14; highest references; well recommended. Brown, 74 West Hill, East Putney, S.W. 15.

A SSISTANT or Manager (28); excellent references; capable, unqualified; experienced in all branches; good Window-dresser and Salesman. Apply 165/33, Office of this Paper.

A SSISTANT (24), Part I., requires post in Manchester district; good experience Counter, Dispensing, and Photography; disengaged; excellent references. Apply 165/16, Office of this Paper.

A SSISTANT; unqualified; 40; Locum or permanency; shortly disengaged. "Velox," 8 St. Mildred's Road, Westgate-on-Sea, Kent.

A SSISTANT Dispenser, capable of management; deferred one subject; 15 years' experience; good Counterman. Mass, 172 Grove Street, Liverpool.

A SSISTANT, unqualified, 28, 5 ft. 10 in., married, desires post;
Manchester or district; passed Chemistry and Physics; 12
years' experience; good references; please state salary offered (outdoors). Tripper, 33 South Grove, Plymouth Grove, Manchester.

A SSISTANT (29); unqualified; good experience Counter and Dispensing. "S.," 36 Jenning Road, S.E. 22.

A SSISTANT (24), deferred in one subject; good experience in Counter and Dispensing; good references. Wright, 38 John Street, Rhyl.

A SSISTANT, fully trained; 20 years Dispensing, Counter, Photography; 35; tall; married. Searle, 47 Duke Street, Devonport.

A SSISTANT, unqualified, quick Counterman, Stock, N.H.I. Dispensing, requires permanent position where experience can be gained. "Aspirin," 73 Mitcham Lane, Streatham, S.W.

A SSISTANT, unqualified (25), experienced Counter, Dispensing, Window-dressing, desires immediate berth. Astin, 131 Woodgrove Road, Burnley, Lancs.

A SSISTANT (26); married; referred one subject; reliable Dispenser; good Salesman; at liberty. Burns, 48 Stanley Street, Gainsborough, Lines.

A SSISTANT, unqualified, experienced; Eastern Counties preferred; highest references. "S. V. R.," 9 Victoria Street, Norwich.

A SSISTANT (22), unqualified, seeks situation; good experience; indoors or outdoors. Apply 166/13, Office of this

BLACKPOOL or Blackburn.—Situation wanted by qualified; aged 33. Hinkley, 51 Chesterfield Road, Blackpool.

PRANCH Manager or Locum, qualified; disengaged 23rd; experienced; satisfactory references; London, provincial, seaside. Pharmacist, 38 Wendover, Road, Harlesden, N.W.

RONZE Medallist Birmingham, qualified this month, age 25, London and provincial experience, desires post immediately. Apply 165/29, Office of this Paper.

COMPETENT, reliable, qualified Locum, disengaged August 1st till September 4th; highest references. Jones, 57 Brown Road, Walthamstow, Essex.

DISENGAGED (47); qualified; first-class all-round experience; locum or permanent. "Statim," 129 High Street, Harlesden, N.W.

DISPENSER, woman (Hall), experienced, disengaged shortly.
Apply 165/24, Office of this Paper.

DISPENSER (Hall) and trained Nurse desires post; London preferred; state salary and particulars. Apply "P.," 26 Lorrimore Square, Kennington, S.E. 17.

DISPENSER, qualified, desires position with Chemist; South Coast, Bournemouth area preferred; immediate. Apply 149/12, Office of this Paper.

DISPENSER (lady), thoroughly experienced and competent, desires post with Doctor or Chemist. Apply 167/17, Office of this Paper.

DISPENSER-BOOKKEEPER, five years' experience, desires post; Doctor or Institution; excellent testimonials and references; free August 1st. Miss Millard, Island Mills, Midsomer Norton, Somerset.

DOCTOR'S Dispenser, unqualified (male), with 20 years' excellent reference (married), desires post in large practice as Dispenser-Bookkeeper; has dispensed for Royalty, and is highly recommended; West or North of England preferred, but would go anywhere. Apply 168/12, Office of this Paper.

EDINBURGH.—Junior Assistant (20) requires situation in goodclass business (September). Apply 166/29, Office of this

EGYPTIAN Student-Associate, passed Part I., Dispensing, Photographic knowledge, desires post with high-class Chemist. "Mina," 74 Nimrod Road, Streatham Park, S.W. 16.

EXPERIENCED Assistant, unqualified, married, tall (38), Counter, Dispensing, Photo, etc., desires permanency; London. "Aspirin," 23 Doughty Street, Holborn, W.C. 1.

EXPERIENCED, qualified, 27, married; highest references; high-class Dispensing and Retail; now disengaged. "Lewis," School House, Charmouth, Dorset.

EXPERIENCED Dispensing, Counter, Prescribing, Stores, and West-End references; practical, thorough worker. "Locum," 122 Scott-Ellis Gardens, N.W. 8.

HOLIDAY Relief Manager, Assistant; Photo, Dispensing, Window-dressing; energetic, up-to-date, all-round man; good references; free August 8th. "Celeritas," "Belmont," Anglesca Road, Shirley, Southampton.

HOSPITAL Dispenser, Locum; qualified; disengaged August. Irving, 66 Rowfant Road, Balham.

LADY Dispenser, Minor qualification, three years' experience, seeks post with Doctor or in Hospital, or as Dispenser in business. Address "M.P.S.," Hillerest, Lowdham, Notts.

LADY Dispenser (Hall) requires post with Chemist; Londor preferred. L. G., 15 William Street, Woolwich, S.E. 18.

L OCUM or Manager, qualified, 28, 10 years' experience in highclass. Retail and Dispensing, requires post. Apply 165/38, Office of this Paper.

L OCUM or permanent; qualified; long, varied experience; excellent testimonials; free after August 13th. "M.," 74 Culverden Road, Balham, S.W. 12.

LOCUM; unregistered; experienced; open August and September; preferred Lines. or district. "Statim," 42 Boultham Avenue, Lincoln.

LOCUM, unqualified, 30, open first two weeks August and same in September; good references. "W. E. F.," 47 Low Moor Road, East Kirkby, Notts.

L OCUM or permanency; qualified; 12 years' all-round experience; North of England preferred, but not essential; good references; at liberty. Taylor, 1 Chester Avenue, Clitheroe.

L OCUM, London or country; exceptionally trustworthy; highest references; abstainer; disengaged. "F.," 39 St. Thomas Road, Finsbury Park, N.

LOCUM, qualified, thoroughly experienced, disengaged August 1st-20th inclusive; satisfactory references; recommended. "Idem," 44 Gresham Road, Brixton, S.W.

L OCUM, disengaged August 2nd to 18th; competent; wide experience all round. "Chemist," 156 Rosemary Road, Peckham.

L OCUM, 28, qualified, disengaged August 22-September 17. P. C. Cumber, 138 Wimborne Road, Bournemouth.

L OCUM, qualified; disengaged; Prescriber; elderly, active; wide experience; reliable. B. Griffiths, 6 Newcastle Hill, Bridgend, Glam.

LOCUM, qualified, reliable; abstainer; disengaged August 29. "S.," c/o Mr. Bryant, 116 Barrow Road, Streatham Common, S.W.

L OCUM; seaside or country; qualified; experienced; Photography; 39; tall; able to take charge; disengaged only August 6th to 27th. Apply 167/26, Office of this Paper.

L OCUM; disengaged August 13; elderly; qualified; thoroughly experienced; town or country; very active. P.C.B. 11/29, Office of this Paper.

M.P.S. AND R.D.S., having turned over his business to his son, requires an easy appointment, with easy pay, or Locum; now engaged till July 29th. Apply 164/19, Office of this Paper.

M.P.S. (LADY) desires post immediately; Retail, Institution, and Medical experience; good references.

Apply Tonks, 74 Penhevad Street, Grange, Cardiff.

MANAGER (36), M.P.S., abstainer, 20 years' all-round experion of this Paper.

Apply 166/35, Office of this Paper.

MANAGER, Pharmacist, elderly, competent all branches, desires post (end August); 6½ years last, 8 years previous engagement; used to sole control; would act with Pharmacist desiring gradual retirement, or would entertain instalment purchase; reference excellent; interview essential. Particulars and terms to "Pharmacist" (166/25), Office of this Paper.

MANCHESTER DISTRICT.—Qualified, single, desires whole or part-time situation from August 1st. "A. G.," 12 Linwood Street, Greenheys, Manchester.

PART-TIME Dispensing required for few hours weekly; temporary or otherwise; lady. Write 165/31, Office of this Paper.

PHARMACIST DESIRES TO RE-ENTER
BUSINESS after six years' absence
due to war service and study; tall; single;
27 years of age; had sound Dispensing,
Counter, and Photographic training; up-todate experience wanted. NOMINAL
SALARY WILL BE ACCEPTED. "M.P.S.,"
c/o Bristo, 39 Trenant Road, Pendleton,
Manchester.

PHARMACIST, 31, 10 years' experience Retail, Dispensing, Photo; desires berth; North preferred; disengaged, references. Martin, 88 Vine Street, Darlington.

PHARMACIST, aged 28, married, seeks permanent position, near London, about September, as Manager in a business which offers scope for increase; excellent experience and references; salary by results. Apply 167/25, Office of this Paper.

QUALIFIED, 28, seeks engagement in a good-class business; no N.H.I. preferred; good Counterman; excellent references. "Aspirin" (158/11), Office of this Paper.

QUALIFIED; 25; excellent Dispensing experience; references; either Wholesale or Retail. Apply 165/52, Office of this Paper.

QUALIFIED, 23, single, desires position; North preferred; good references. Pearson, 37 St. Vincent Street, South Shields.

QUALIFIED recently, 24, married, good references, desires permanency. Barnes, Thistlewood, Dalston, Carlisle.

QUALIFIED, high-class experience, tall, active, desires post in Pharmacy with brisk Counter trade; disengaged. Fortnam, Oxford Street, Rugby.

QUALIFIED, young; excellent references; late Demonstrator in Pharmacy and Materia Medica; Retail and Hospital experience; well up in official estimations and urine testing. Apply 162/4, Office of this Paper.

QUALIFIED Pharmacist requires Locum work from August 15th; good all-round experience; terms moderate; Scotland preferred. Apply 163/13, Office of this Paper.

QUALIFIED, knowledge of French and Italian from previous experience on Continent, expert Photo Salesman, etc., 5 ft, 10 in., 30 years, desires appointment September or October, anywhere abroad considered, Italy preferred; Wholesale or Retail. Apply 164/10, Office of this Paper.

QUALIFIED, energetic, aged 26, highest references, at present managing branch Pharmacy, desires similar change or Locum; disengaged August 8th. Please write to "M.P.S.," 96 Stock Street, Cheetham, Manchester.

QUALIFIED (21), first-class Dispensing experience; good reference. E. R. Lawton, 77 St. Ronan's Road, Southsea.

QUALIFIED, 23, seeks engagement anywhere; abstainer; Welshspeaking; good experience. Davies, 5 Gas Lane, Llanfyllin, Mont.

QUALIFIED (23), 5 ft. 10 in., seeks situation; good-class experience; excellent reference; reasonable salary; start immediately. Wright, 24 Salisbury Avenue, Goole.

QUALIFIED, 29, 11 years' Hospital experience, excellent reference, quick and accurate Dispenser, knowledge Photography, desires similar position. F. Ward, 10 Laburnum Road, Fairfield, Liverpool.

QUALIFIED (21), requires situation as Assistant or Manager; good-class experience in all branches; reliable Dispenser; end end (2008). Evans, 20 Caroline Street, Bridgend

QUALIFIED, reliable, elderly man, as Dispenser or light position; present situation 3 years; disengaged August 13th; good experience. C. M., 3 Worship Street, Hull.

QUALIFIED; 37; extensive experience in all branches of the trade; excellent references; disengaged. Apply 166/40, Office of this Paper.

QUALIFIED; 28; tall; good appearance; good mixed experience, Photography, etc.; permanent, Locum, Assistant, or Manager. Apply 167/30, Office of this Paper.

UALIFIED, capable Assistant or Manager; used to high-class Dispensing and Retail; highest references. H. F. W., tswold, Victoria Street, Basingstoke.

PETAIL or Wholesale Assistant; 21; three years' experience.

M.L. 11675, Office of this Paper.

MART Assistant, thoroughly experienced in all departments of the trade, requires a situation; age 35; well educated and good address; undeniable references. Reply "Energetic" 50/14), Office of this Paper.

EMPORARY (21), qualified; whole or part-time until September 3rd; London only; West-End experience. "F. W. A.," sodoote, Southfield Park, Pinner, Middlesex.

DMPORARY; unqualified; twelve years' good Dispensing, Counter, and Photographic experience; height 5 ft. 11 in.; ht years last berth; free until end of October; moderate ary. Rankin, Midsomer Norton, near Bath.

NQUALIFIED Assistant requires immediate berth; 25; married; experienced Dispensing and Photography; Midlands ferred. Doxey, "The Beeches," Matlock.

NQUALIFIED Assistant seeks berth; London district; Photography; capable Dispenser; first-class references; 10 years' perience; Part I. Apply P.C.B. 10/24, Office of this Paper.

NQUALIFIED Assistant, passed Part I., seeks engagement; excellent references; state salary. Evans, 30 Pleasant View, ttstown, Rhondda.

NQUALIFIED Assistant, 30, many years' experience in all branches of trade, at present abroad, seeks appointment in delass Pharmacy, home or abroad; fluent French and Italian; d Continental experience. Address Ernest R. Mickleburgh, Pharmacie Anglaise, 28 Rue Bal Agoun, Algiers, North Africa.

NQUALIFIED Assistant; 8 years' experience; height 5 ft. 11 in.; age 28; state wages: London or Bath prered, but not essential. Johnstone, Jessamine House, British ne, Pontypool, Wales.

OUNG lady (19), served 1½ years, desires full or part-time post in London to complete apprenticeship. Apply 167/19, ce of this Paper.

OUNG qualified man, also possessing S.M.C., B.O.A. diplomas, seeks situation with Chemist doing Optics; keen, energetic; dexperience. Broad, Cleveland Place, Bath.

WHOLESALE.

2s. for 18 words or less; 6d. for every ddltional 10 words or less, prepaid.

ne Advertiser may, if preferred, have replies addressed to this office and forwarded on payment of an additional charge of 1/-

REPRESENTATIVE, with large first-class connection amongst. London Chemists and Stores, is open to represent any firm repute; excellent credentials; Salesman. Particulars to chett, 116 Barons Court Road, Kensington, W. 14.

SSISTANT Analytical Chemist; 26; three years an articled pupil; two years' experience, in charge of Analytical Departur; experience in Clay, Shales. Oils, and Water. M.L. 95761, to of this Paper.

RISTOL Channel Ports or West of England.—Advertiser, age 26, qualified, seeks berth as Senior or Branch Manager; keen Salesman, good address, energetic worker; exienced high-class Dispensing, also N.H.I. and General Retail; hest references; permanency preferred. Salary and details "Severn," 10 Priorton Terrace, Swansea.

HEMIST, Ph.C., 14 years' experience Galenicals, Pharmaceuticals, organisation, control, testing, standardisation, pracal, man, reliable and conscientious worker, seeks responsible ition. Apply 166/31, Office of this Paper.

ABORATORY Assistant, unqualified, 26, ex-Service, desires permanent position in London Wholesale house; good all-nd experience as Apprentice and Assistant. P.C.B. 11/26, ice of this Paper.

ANCASHIRE and District .- Gentleman, with extensive connec tion of many years' standing, open for engagement; capable esman; active and energetic; first-class references. Address Ianchester" (160/11), Office of this Paper.

ANUFACTURING Chemist, 24, educated Hartley University, fluent Spanish, good knowledge Chemistry, manufacturing 1 Pharmaceutical, buying experience, wishes to go abroad; in or Spanish-speaking countries. Apply "M.L." 13256, ice of this Paper.

EPRESENTATIVE, 21 years with one firm, seeks engagement; salary, expenses, and commission. Hall, 80 Shaw ath, Stockport.

PEPRESENTATIVE, with live connection Lancs, Ireland, and Wales, desires whole or part Representation; several years sent ground. "Satisfaction" (167/14), Office of this Paper.

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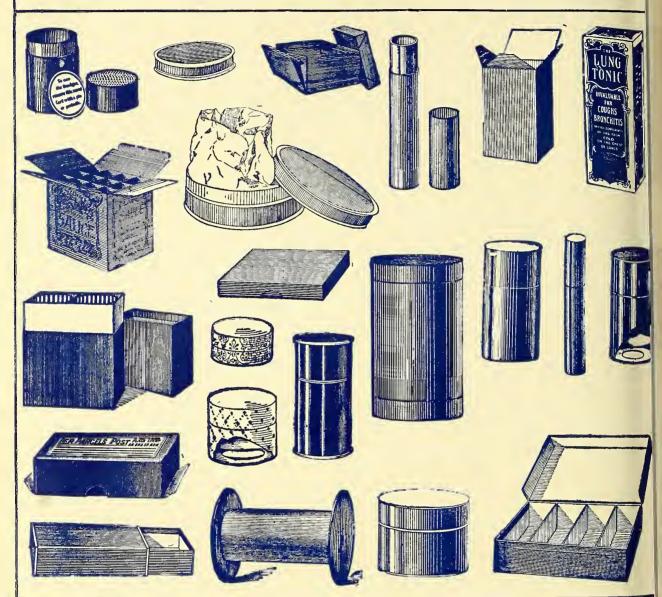
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